

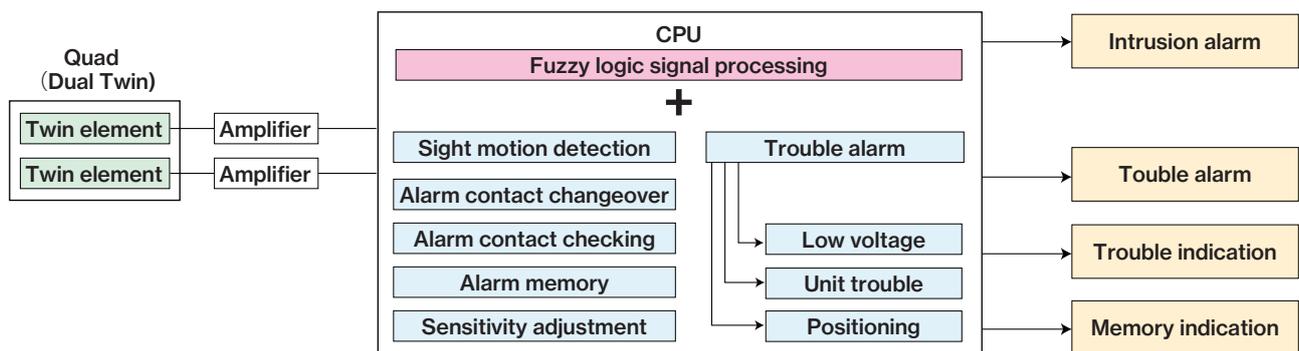
PASSIVE INFRARED SENSOR

PA-5312E (Wide angle 12m [40ft]) PA-5325E (Vertical curtain 25m [82ft])



QUAD PIR WITH FUZZY LOGIC SIGNAL PROCESSING

Quad elements coupled with “Fuzzy logic” signal processing (discriminating temperature differential information and object size) provide high “catchability”. The series offers several unique features that make this sensor a desirable choice for high security applications.



HIGH PERFORMANCE

Dual twin element, optical unit and signal processing circuitry enable high density protection area. Ceiling/wall mountable.

SLIGHT MOTION DETECTION

The unit can be adjusted from quad element sensing to twin element sensing, which doubles the number of sensitive zone, suited for situations where close range detection is desirable. (Highest sensitivity setting)

SELF-TEST FUNCTION

The unit performs a self-checkup of alarm contact whenever an alarm is indicated. The alarm LED flashes if the contact is short-circuited, or damaged by induced lightning, etc.

BUILT-IN ALARM MEMORY

Memory LED indicates which sensor triggered an alarm during armed condition when two or more sensors are connected on the same line.

TROUBLE ALARM

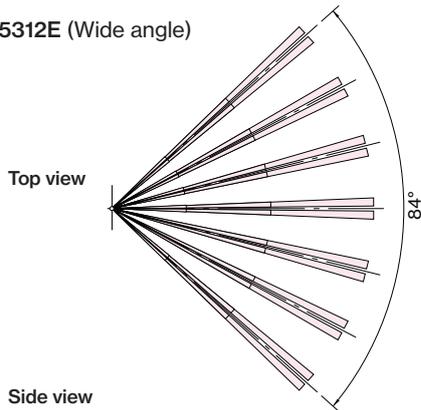
The trouble found out is notified by continuous alarm output and lighting of alarm LED.

- **Unit trouble :**
When inner circuit / wiring is damaged or broken.
- **Low voltage :**
When the supply voltage drops down to approx. 8.5V DC.
- **Positioning :**
When the sensor head fails to return automatically after adjustment is completed.

PASSIVE INFRARED SENSOR

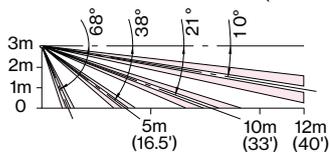
COVERAGE

PA-5312E (Wide angle)

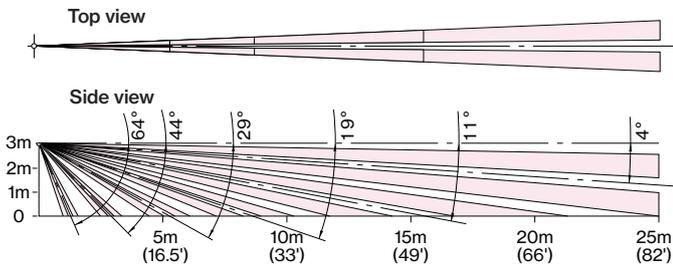


Top view

Side view

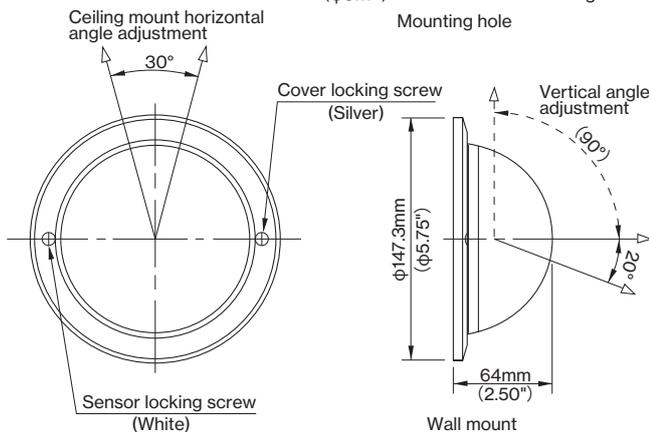
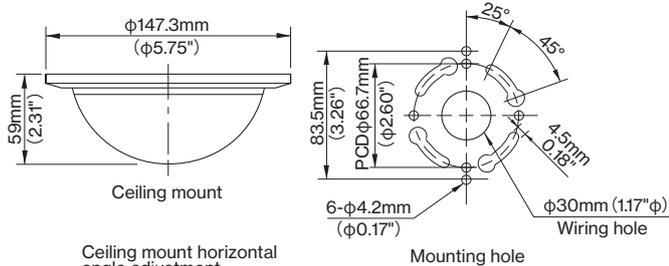


PA-5325E (Vertical curtain)

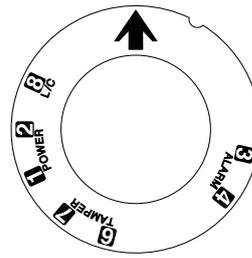


EXTERNAL DIMENSIONS

[Unit : mm (inch)]



TERMINAL ARRANGEMENT



- ①-② Power (non-polarity) 9.5 to 30V DC N.C. contact : 25mA or less
- ③-④ Alarm output Dry contact relay N.O./N.C. contact changeover Rest : approx. 2 sec. 24V, 0.25A
- ⑤-⑦ Tamper output Dry contact relay N.C. contact Operation : Open when cover/sensor body is detached
- ⑧ LED control

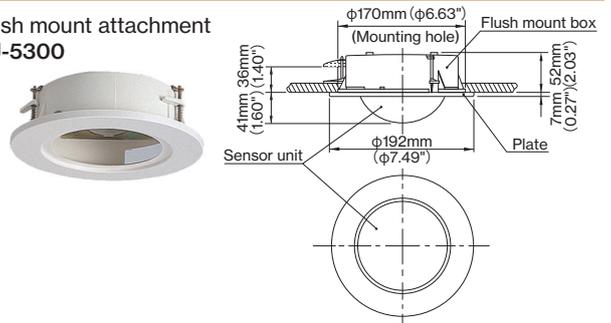
SPECIFICATIONS

Product name	PASSIVE INFRARED SENSOR	
Model	PA-5312E	PA-5325E
Detection system	Passive infrared (Quad)	
Coverage	Wide angle 12m (40') Max.	Vertical curtain 25m(82')Max
Sensitive zone	18 pairs (72)	6 pairs (24)
Supply voltage	9.5V to 30V DC (non-polarity)	
Power consumption	25mA Max. (N.C./N.O. contact)	
Alarm output	Dry contact relay output : N.O. or N.C. selectable Reset time : approx. 2sec. 24V (AC/DC) 0.25A Max (protective resistor 3.3Ω)	
Tamper output	Dry contact N.C. Open when cover or body is detached 30V DC 0.1A Max.	
Alarm memory	3min. -Flickering, 47min. -Lighting	
Slight motion detection	Sensitive zone : 36 pairs	Sensitive zone : 12 pairs
Alarm LED	Red LED Flickering (every 0.5 sec.) : Warming-up Lighting (approx.2sec.) : Alarm Flickering (every 0.25 sec.) : Unit trouble alarm Continuous lighting : Low voltage/positioning trouble alarm (LED can be disabled except trouble indication)	
Memory LED	Yellow LED Flickering : Memory activated Lighting : Memory indicated	
Trouble signal	Unit trouble : Monitoring inner circuit and wiring damage Operation : Trouble alarm Low voltage trouble : Monitoring low voltage Operation : Trouble alarm Positioning : Monitoring failure to replace sensor head Operation : Trouble alarm	
Ambient temperature range	-10°C to +55°C	
Mounting position	Ceiling, wall (indoor)	
Wiring connections	Terminals	
Weight	250g (8.75 oz)	
Appearance	Body, Cover : Resin	
Weight	Ceiling mount : Vertically 26° Horizontally ±15° Wall mount : Vertically 20° Horizontally ± 5°	

* The specifications are subject to change without notice.

OPTIONAL

Flush mount attachment BU-5300



Please note : This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary or a crime preventing device. TAKEX is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation or improper maintenance.

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