PASSIVE INFRARED SENSOR

PA-6812E Wide angle
PA-6810E 360° Round
PA-6820E Vertical curtain
PA-6805E Spot



Wall mount
(Optional attachment: BCW-401)



TAKEX®

PA-6800 series sensors are ceiling mount high quality passive infrared sensors with several features, e.g. Mirror optic, compact design and super slim ceiling mounted, with silent relay.

Features

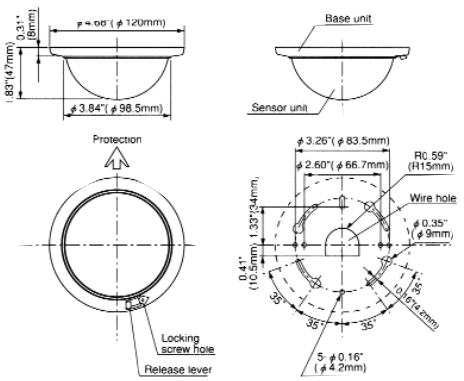
- **COMPACT DESIGN**
  Our high technology provides one of the world's smallest dome-shaped infrared sensor. Super slim and compact design: 120mm in diameter and 47mm in height.
- **EASY INSTALLATION**
  Easy separation of the sensor unit and the base unit eases installation and maintenance. The sensor unit can be snapped into and out of the base unit. One touch operation eases installation in high places.
- **MIRROR OPTIC (PA-6812E/PA-6820E)**
  The CAD optic with our original simulation software has achieved sharp zones. A rotating mirror ensures efficient detection regardless of the area setting.
- **SILENT RELAY**
  Photo-mos FET switch relay adopted at alarm output. Completely noiseless by eliminating the movable part which is on the inside of the relay.
- **HIGH STABILITY**
  Signal processing by the original CPU. Excellent R.F.I. and noise immunity. Good protection against insect intrusion.
- **SENSITIVITY CHANGEOVER**
  Sensitivity is adjustable by 4 steps: 60%, 80%, 100%, 120%.
- **PULSE COUNT CHANGEOVER**
  Mode selector allows setting for 1,2,3 or 4 triggers to initiate an alarm output to suit its application. (PA-6812E/PA-6810E/PA-6805E).
- **ALARM CONTACT CHANGEOVER**
  Mode selector allows N/O or N/C contact to be selected.
- **AUTO/MANUAL MEMORY**
  Alarm memory can be either automatically or manually controlled.
- **OTHER FEATURES**
  - Distinguishable operation LEDs --
  - Alarm LED : Red, Memory LED : Yellow.

Specifications

Model	Passive Infrared Sensor			
Model Number	PA-6812E	PA-6810E	PA-6805E	PA-6820E
Coverage	Wide angle 40'(12m) Max	360° Round ø59'(ø18m) Max	Spot ø13.1'(ø4m) Max.	Vertical Curtain 66'(20m) Max.
Sensitive Zone	17 pairs	33 pairs	9 pairs	8 pairs
Supply Voltage	9 to 18V DC (non-polarity)			
Current Consumption	N/C: 25mA Max. N/O: 35mA Max.			
Alarm Signal	Dry contact (Semi-Conductor) (N/C, N/O changeover) Reset: Approx. 2 sec., 30V, 0.25A Max. (protective resistance 3.3Ω)			
Alarm Memory	Auto : 3 minutes flashing, 47 minutes lighting and automatically reset Manual: Manual control			
Alarm LED	Red : Flashing at warming up Lighting at alarm (LED disabled)			
Memory LED	Yellow : Flashing at memory activated Lighting at memory indication			
Adjustment	Vertically 30° Horizontally ±25°	Horizontally ±25°		Vertically 30° Horizontally ±25°
Count Changeover	1/2/3/4 changeover			–
Ambient Temperature Range	+5°F to +131°F (- 15°C to +55°C) without condensation			
Mounting Position	Indoor ceiling (wall mount with optional attachment BCW-401)			
Wiring Connection	Terminals on separate base unit			
Weight	110g (3.85oz)			
External Appearance	Body: ABS resin. Cover: PE resin			
Accessory	Tapping screw: 2pcs. Sensor locking screw: 1pce.			

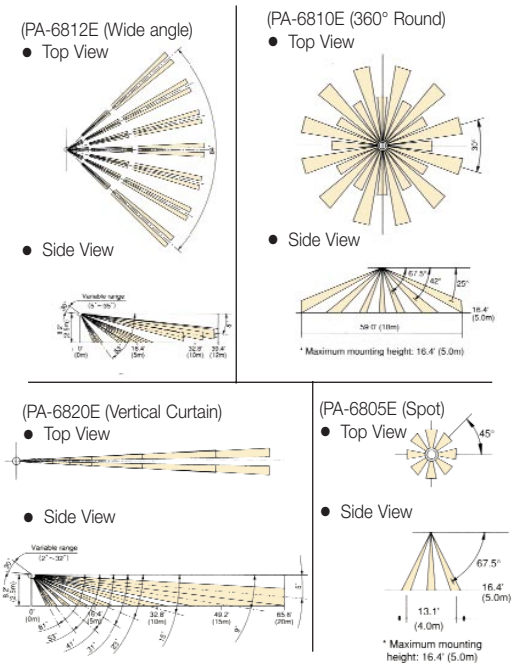
Due to ongoing product improvements, specifications may change without notice.

External Dimensions (mm/inch)

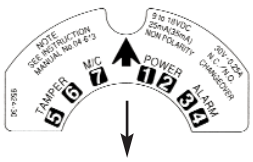


Note: This sensor is designed to detect intrusion and to initiate an alarm. It is not a burglar-preventing device. TAKEX is not responsible for damages or losses caused by accidents, thefts, Acts of God (including inductive lightning), abuses, misuses, abnormal usages, faulty installation or improper maintenance.

Coverage and Range



Terminal Arrangement



1 & 2: Power (non-polarity)
9V to 18V DC
N/C: 25mA or less
N/C: 35mA or less
3 & 4: Alarm output
Dry contact
(Semi-Conductor)
N/C, N/O changeover
Reset : approx, 2 sec.
30V AC/DC, 0.25A
(Protective resistance
3.3 Ω)
5 & 6: Tamper
7: M/C memory control

SKAFOR
Approval No.
No.212.656 (PA-6805E)
No.212.657 (PA-6810E)
No.212.658 (PA-6812E)
No.212.659 (PA-6820E)

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(CRI-144)