



AP669 ADAPTIVE PASSIVE INFRARED

Dual Optic Technology™ Ceiling Mount PIR



- Dual Optic Technology™
- Two 180° mirror segments, two pyros and two ASICs for superior detection and enhanced false alarm immunity
- AP Series — Adaptive Passive Infrared Technology
- 60-ft. diameter 360° coverage
- 18 full curtains provide superior detection at all mounting heights (8–16 ft.)
- Head and base style unit adjusts 15° in either direction for easier aiming
- 180° shunt provides flexibility to use only one-half of the unit's field of view when necessary

The Sentrol AP669 Ceiling Mount PIR with Dual Optic Technology™ incorporates two independent pyros, two separate ASICs and two 180° mirror segments that provide two independent 180° fields of view. This design enables the detector to substantially increase the overall volume of its coverage area, providing superior detection performance and enhanced false alarm immunity.

Combining 4D signal image processing with the dual mirror optical system, the AP669 analyzes the size, shape and speed of incoming signals, and actually adapts the alarm threshold when faced with harsh environments. The two separate 180° mirror segments provide additional flexibility by enabling one of the 180° mirror segments to be shunted. One-half of the coverage pattern is eliminated simply by programming a dip switch located in the back of the sensor's housing.

Unlike other ceiling-mount PIRs, the AP669's patented mirror optical system yields 18 solid curtains that cover the room with detection. The curtains emanate from the detector's ceiling-mount position to the floor below and out 30 feet in all directions for maximum coverage at all mounting heights up to 16 feet.

The AP669's rotating base allows installers to shift the entire protection pattern by 15° in either direction for easier aiming.

AP669 Dual Optic Technology™ Ceiling Mount PIR

Specifications:

Coverage pattern Eighteen 30' curtains provide 360° detection
 Input power 12 or 24V (7.0–28.0V DC); maximum ripple = 2V peak to peak @ 12V
 Current consumption ... 11mA nominal/13mA maximum@12V
 Alarm output Form C relay rated 50mA @ 28V DC
 33ohm current limiting resistor in series with the common
 Tamper Output..... closed loop switch rated 100mA @ 28V DC
 Alarm time minimum 2.5 seconds
 Mounting height 8–16'

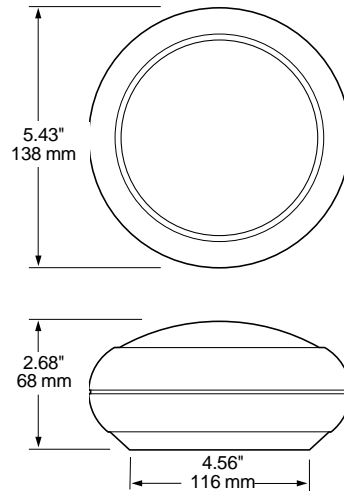
Environmental Limits:

Operational Temperature range = 0°F to 131°F (-18°C to +55°C)
 Relative humidity 93% maximum

Dimensions:

Diameter 5.43" (138mm)
 Height 2.68" (68mm)
 Weight 4.25 oz (120 grams)

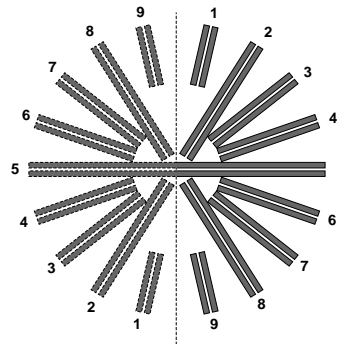
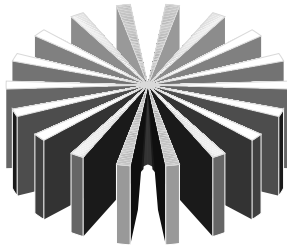
Dimensions



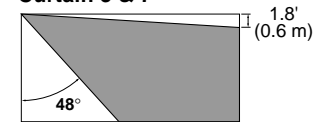
Lens coverage

Full 360° Coverage

18 full curtains

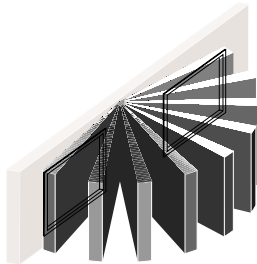


Curtain 3 & 7

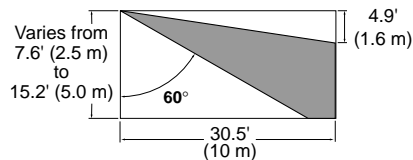


180° Shunt

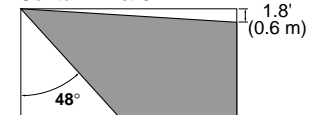
Protecting a room with a bank of windows



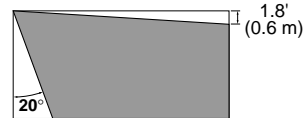
Curtain 1 & 9



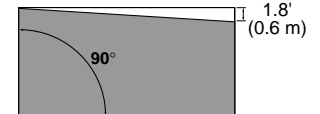
Curtain 4 & 6



Curtain 2 & 8



Curtain 5



Ordering Information

Model Number	Description
AP669	Ceiling mount PIR, 18 curtains, Form C relay, mounting height from 8'–16'
AP669BP	Optional "base plate" used for 569 retrofit applications (fits 4" octagon electrical box)



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