

Mirror Optic PIR

360° Dual Ceiling Mount



OVERVIEW

The Ceiling Mount PIR with Dual Optic Technology™ incorporates two independent pyros and two 180° mirrors that provide two independent 180° fields of view. This design enables the detector to substantially increase the overall volume of its coverage area, providing exceptional detection performance and false alarm protection.

Combining 4D signal image processing with the dual mirror optical system, the PIR analyzes the size, shape, duration and speed of incoming signals, and 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 PIR'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 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.

STANDARD FEATURES

- Dual Optic Technology
- Two 180° mirrors and two pyros for exceptional detection and enhanced false alarm protection
- AP Series Adaptive Passive Infrared Technology
- 60 ft. diameter 360° coverage
- 18 full curtains provide superior detection at 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

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Specifications

Coverage pattern	(18) 30' curtains provide 360° detection
Input power	12V nominal; maximum ripple = 2V peak to peak @ 12V
Current consumption	9mA nominal/15mA max @ 12V
Alarm output	Form C relay rated 50mA @ 28VDC 33ohm current limiting resistor in series with the common
Tamper output	Closed loop switch rated 100mA @ 28VDC
Alarm time	2.5 second min
Mounting height	8–16 ft.

Environmental Limits

Operational Temp range	14°F~131°F (-10°C~55°C)
Relative humidity	93% max.

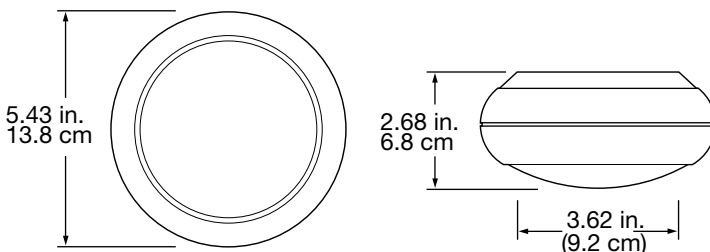
Physical

Dimensions (DxH)	5.43 x 2.68 in. (13.8 x 6.8 cm)
Weight (g)	4.25 oz. (120g)
Listing	C-UL-US, UL639, CAN/ULC-5306

Ordering Information

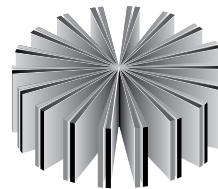
AP669	Mirror Optic PIR, Ceiling Mount, Two 180° Mirror Segments and Two Pyros for Superior Detection. 18 Full Curtains. 60' Diameter Range; 360° Coverage. 12V. Form C, Tamper, White. UL, ULC Listed
AP669BP	Optional "Base Plate" Used for 569 Retrofit Applications (Fits 4" Octagonal Electrical Box)

Dimensional Diagrams

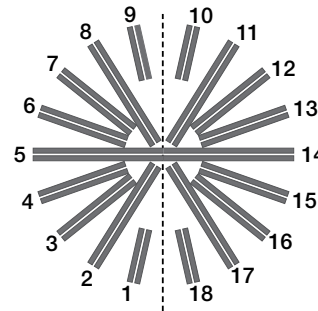
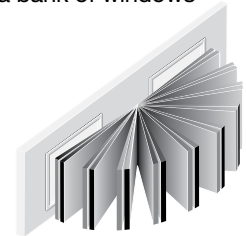


Lens Coverage

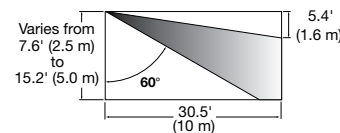
Full 360° Coverage
18 Full curtains



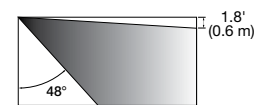
180° Shunt
Protecting a room with
a bank of windows



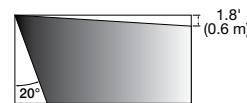
Curtain 1 & 9



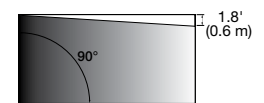
Curtain 3, 4, 6 & 7



Curtain 2 & 8



Curtain 5



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Specifications subject to change without notice.

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2017/03 (GSP-2214)