

# AP669

## Ceiling Mount Detector



### Installation Instructions

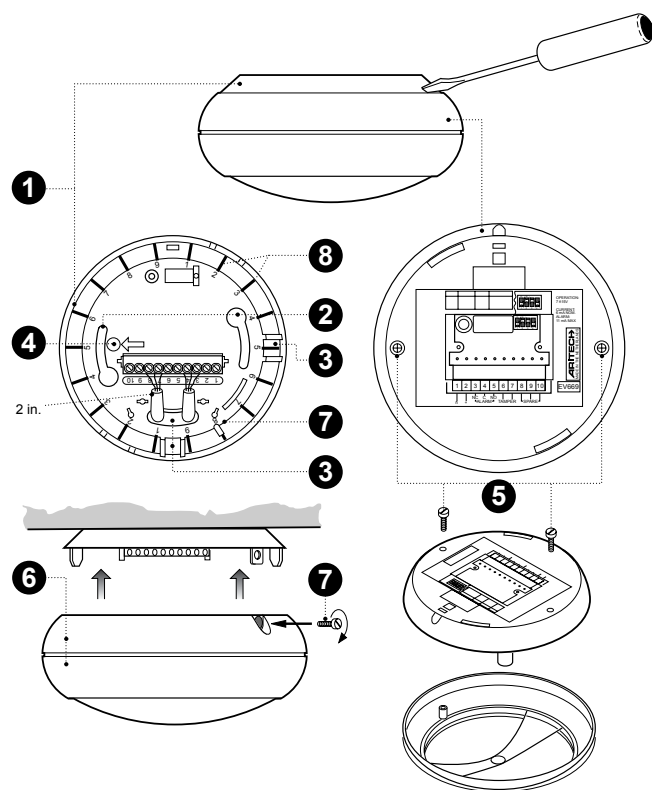


Figure 1

### Mounting Instructions

- Lift off mounting plate (1) as shown in Figure 1. Fasten the mounting plate to the ceiling in the required position using mounting holes (2).

The detection pattern can be adjusted by up to  $\pm 15^\circ$  (max  $30^\circ$ ) by rotation of the mounting plate prior to tightening the screws.

- Strip outer jacket approximately 2 inches (50mm) and pull it through the cable entry hole (3) and strain relief.
- Wire the detector and select the appropriate processing options as shown in Figure 3 and replace the sensor module (6).
- To mount the sensor module to the mounting plate use the screw (7) which is placed for transport in the mounting plate.

The curtain directions 1-9 clockwise (8), are indicated in the mounting plate. (Curtain number 5 is the center curtain.)

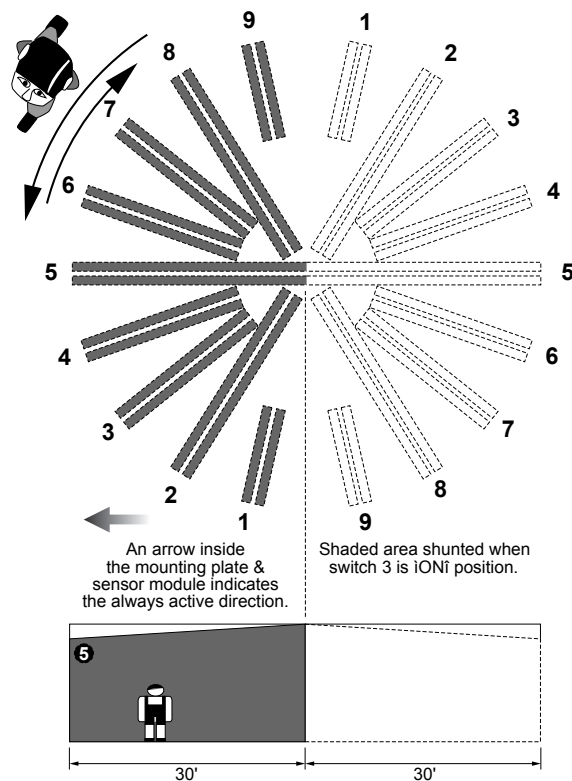


Figure 2

### Selecting a Mounting location

Install the detector so that the expected movement of an intruder will be across the fields of view. This is the direction best suited for PIR detectors.

Avoid possible false alarm sources such as:

- Direct sunlight onto the detector.
- Heat/cold sources in a field of view (heaters, air conditioning, radiators, etc.).
- Moving objects in the field of view (fans, pets, etc.).

**Increasing mounting heights beyond the specified range will reduce sensitivity.**

Connection and Programming

Switch 1: Programming the LED

- ON LED enabled
- OFF LED disabled

Switch 2: Programming the processing

- ON Enables Bi-curtain processing designed for harsh environment.
- OFF Provides the standard 4D processing.

Switch 3: Programming the detection pattern

- ON Provides a 180° field of view for special applications.
- OFF Gives the normal 360° field of view.

**Note:** An arrow in the mounting plate (4) (see Figure 1 and Figure 2) and inside the sensor module shows the always active coverage pattern. The coverage pattern **opposite to the arrow** can be disabled by setting switch 3 in the “ON” position.

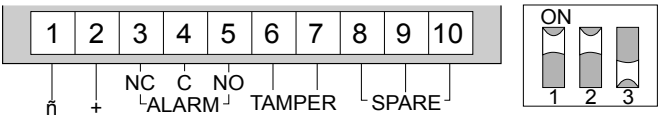


Figure 3

| Switch | Description       | On         | Off         |
|--------|-------------------|------------|-------------|
| 1      | LED enable        | LED on     | LED off     |
| 2      | Processing        | Bi-curtain | Standard-4D |
| 3      | Detection pattern | 180°       | 360°        |

Access to the Mirror Inside the Sensor Module

This access is only required when masking individual curtains.

Undo the screw (5) and open the sensor module (6) (see Figure 1).

The two mirrors are accessible now.

Selecting the Coverage Patterns

Mask the appropriate mirror curtains with the adhesive labels provided and reassemble the sensor module.

For example, see Figure 4 for mirror curtain coverage pattern corresponding to curtain 4 and 8 masked.

Masking Coverage Patterns

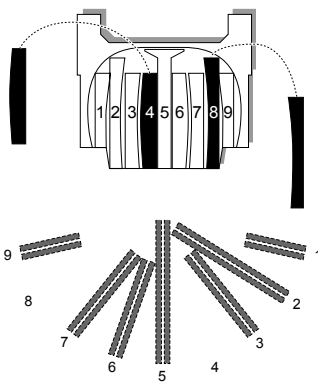
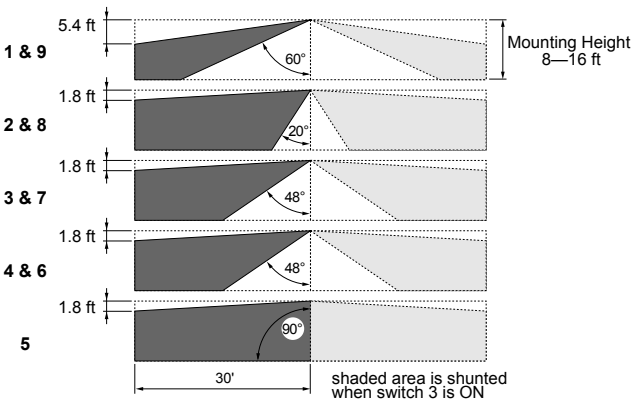


Figure 4

Field of View

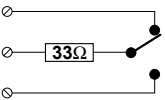


Mounting Height Application Note

When increased mounting heights are used outside the specified mounting height range of 8 - 16 ft (2.4 - 4.8m), sensitivity will be reduced.

Specifications

|                                 |                           |
|---------------------------------|---------------------------|
| Input power .....               | 12 or 24V (7–28V)         |
| Peak to peak ripple .....       | 2V max. (at 12V)          |
| Current consumption             |                           |
| Normal operation .....          | 11 mA (at 12V)            |
| Alarm .....                     | 13 mA max. (at 12V)       |
| Specified mounting height ..... | 8 – 16 ft (2.4 - 4.8m)    |
| Target speed range .....        | min. 0.9 – max. 12.0 ft/s |
| Alarm output .....              | 50 mA at 28 V Form C      |



|                            |   |
|----------------------------|---|
| Alarm time .....           | min 2.5 sec.                                  |
| Tamper output .....        | 100 mA at 28 V                                |
| Temperature limit .....    | 0°F to +131°F (–18°C to +55°C)                |
| Relative humidity .....    | max. 93%                                      |
| Size .....                 | 5.43 in. dia. x 2.68 in. (138mm dia. x 68 mm) |
| Weight .....               | 4.25 ounces                                   |
| Number of curtains .....   | 18  |
| Max. detection range ..... | 60 ft (18m) diameter, 30 ft (9m) radius       |
| Listings .....             | C-UL US                                       |



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