Sentrol 6255 SureShot™ PIR

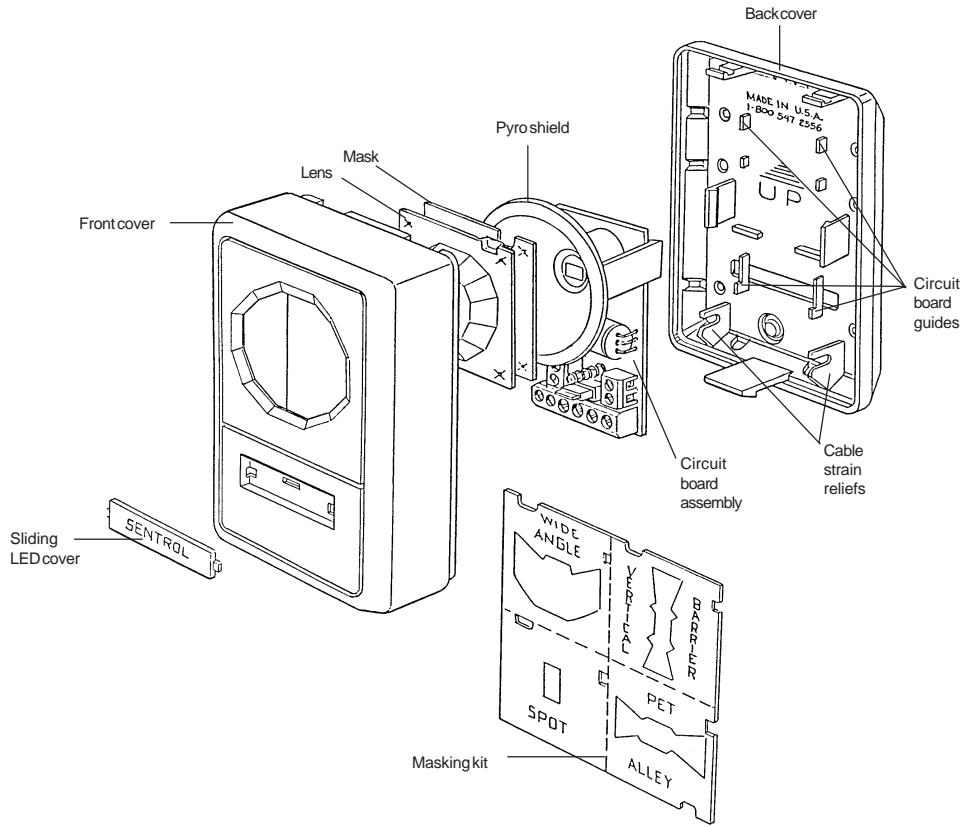**UL LISTED**

Installation Instructions

Figure 1. Exploded view

Avoid False Alarm Sources

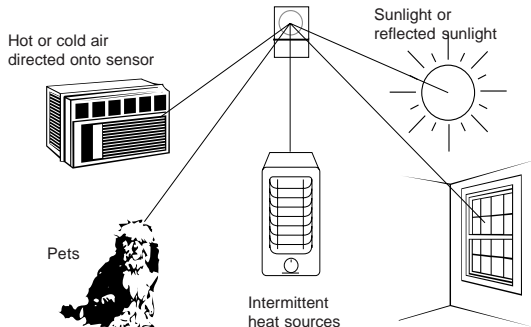For false-alarm-free operation, a PIR should not "see" sources of heat or cold. See Figure 2.

Figure 2. False alarm sources

Installing the SureShot

1. Remove the front cover by gently prying the unit apart at the bottom. The front cover hinges at the top.

2. Remove the circuit board assembly by holding the pyro shield and pulling it out of the back cover. See Figure 1.

CAUTION

You must be free of static electricity before handling sensor circuit boards. Touch a grounded, bare metal surface before touching circuit boards or wear a grounding strap.

3. Mount the back cover to a ceiling, wall, or corner. For wall mounting, make sure the "up" arrow is pointing up. Use the appropriate mounting knockouts. See Figure 3.

4. Snap the circuit board assembly onto the back cover by aligning the lower edge of the board with the circuit board guides and pressing it into place. See Figure 1.
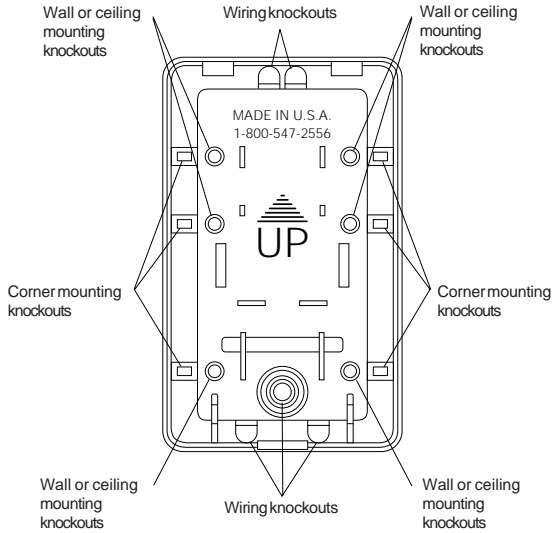

Figure 3. Back cover

5. Connect the wires (see *Wiring* and Figure 7).

6. Choose which masking plate you need, if any. Insert it behind the lens on the front cover by pressing it over the four mounting pins. Once the front cover is installed, the masking plate will be held tight against the lens.

Note
The masking plates have two notches to prevent incorrect installation. One notch matches a rib in the front cover. The other notch matches a dimple in the lens. See Figure 4.
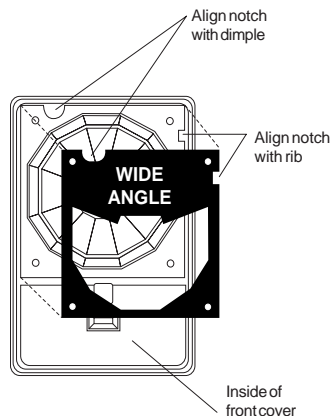

Figure 4. Masking plates

Note
To correctly mount the Pet Alley Mask, the lens must be removed from the front cover and rotated 180 degrees. See Figure 5.
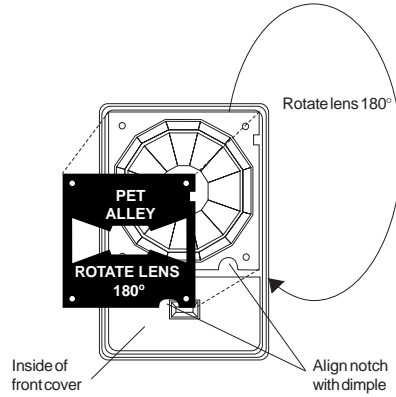
Figure 5. Pet alley mask

7. Replace the front cover.

Note
When mounting on the ceiling, align the unit to maximize the oblong detection pattern for the room. See Figure 6.
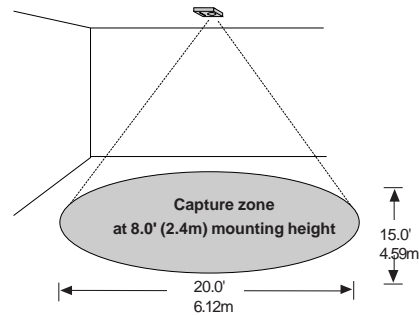
Figure 6. Detection pattern

8. After walk testing, the LED cover can be used to cover the LED. See Figure 1.

Wiring
Strip back the outer jacket on the wiring cable. This will allow wires to flex in the case. Use the cable strain relief built into the back cover to prevent stressing wires at their connection. See Figure 1.
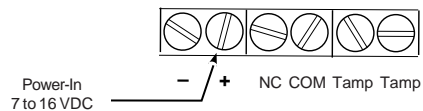
Figure 7. Wiring

Note
The unit should be connected to a UL listed power supply capable of providing four hours of standby power.

Zone Patterns

29 Zones
58 Beams

Capture Zone

8' (2.4m)

15' (4.59m) X 20' (6.12m) capture zone

25' diameter (7.5m) coverage pattern
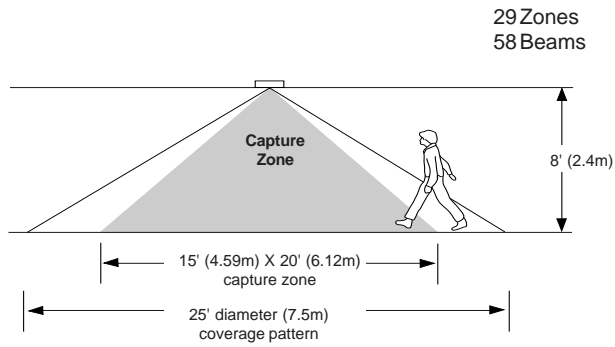
Note
An intruder must enter the capture zone in order to be detected. False alarm sources, such as heaters, should be kept out of the coverage pattern.

Figure 8. Ceiling Mount–No Mask

7 Zones
14 Beams

Top View

0'

10°

40'
12.19m

Side View

7'
2.13m

0'   10'   20'   30'   40'
     3.04m 6.09m 9.14m 12.19m
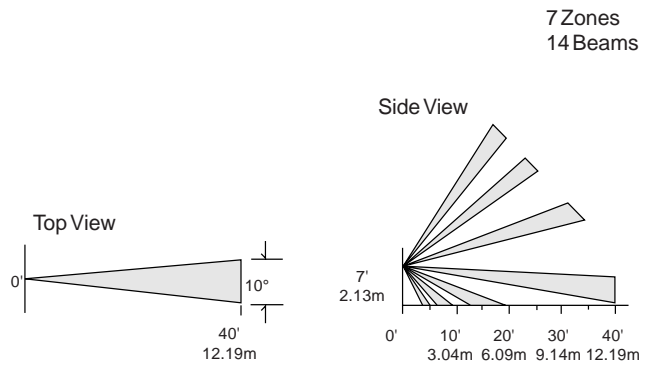
Figure 9. Vertical Barrier Mask

Top View

0'

90°

30'
9.14m

40'
12.19m

18 Zones
36 Beams

Side View

7'
2.13m

0'   10'   20'   30'   40'
     3.04m 6.09m 9.14m 12.19m
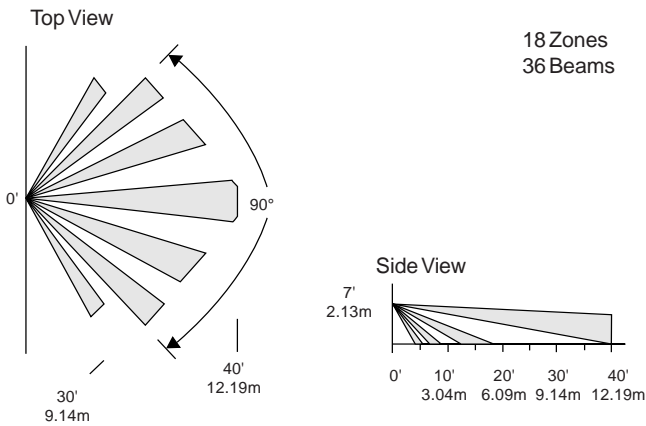
Figure 10. Wide Angle Mask

Top View

0'

90°

30'
9.14m

40'
12.19m

7 Zones
14 Beams
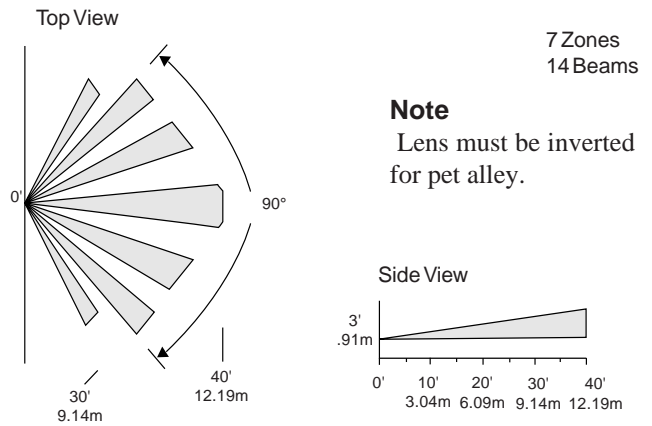
Note
Lens must be inverted for pet alley.

Side View

3'
.91m

0'   10'   20'   30'   40'
     3.04m 6.09m 9.14m 12.19m

Figure 11. Pet Alley Mask

1 Zone
2 Beams

Top View

0'

10°

40'
12.19m

Side View

7'
2.13m

7°

0'   10'   20'   30'   40'
     3.04m 6.09m 9.14m 12.19m

Figure 12. Single Spot Mask

Specifications

Pulse count .... Bi-directional, 1 zone (2 pulses)
Capture zone (at 70° F)
    Wide Angle (90°) .... 40' (12.19m) x 30' (9.14m)
    Single Spot .... 40' (12.19m) range
    Vertical Barrier................................. 40' (12.19m) range
    Pet Alley (90°) .... 40' (12.19m) range
    360°Ceiling ..... 15' x 20' (4.57m x 6.10m) at 8' (2.44m)
        mounting height
      16' x 30' (4.88m x 9.14m) at 12' (3.65m)
        mounting height
      Ceiling mounting height up to 12' (3.65m)
Mounting .... Wall, corner, or ceiling
LED indicator .... Walktest
Size .... 2.25" (5.72cm) W
      3.75" (9.52cm) H
      1.20" (3.05cm) D

Color .... White
Voltage .... 7 to 16 VDC
Current .... 8mA typical, 10mA max.
Maximum relay rating 16VDC, 50mA
Alarm output .... Fail safe contacts w/ 10 ohms in series,
    Form A, Closed loop (NC)
Alarm duration.. 2 to 5 seconds
Cover tamper contacts .... Closed loop,
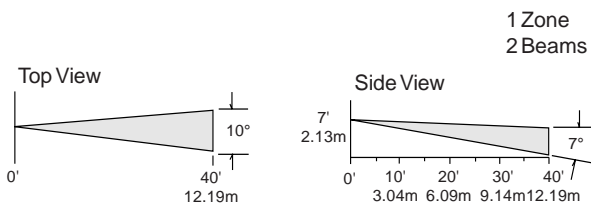   rating: 50mA, 12VDC
Operating temperature .... 0°F to 120°F (-17°C to 50°C)
Humidity .... 10% to 90% noncondensing
RFI immunity .... greater than 10V/meter from 0 to 1000MHz
Static/lightning immunity .... 2.5KV, 2 joules max energy
    impulse, 1 msec rise / 50 msec decay

Front View

2.25"
5.72cm

3.75"
9.52cm

Side View

1.20"
3.05cm

Ordering Information

Part Number	Loop Type	Electrical Configuration	Listing
6255	Closed	N.C.	UL

GE

GE Interlogix