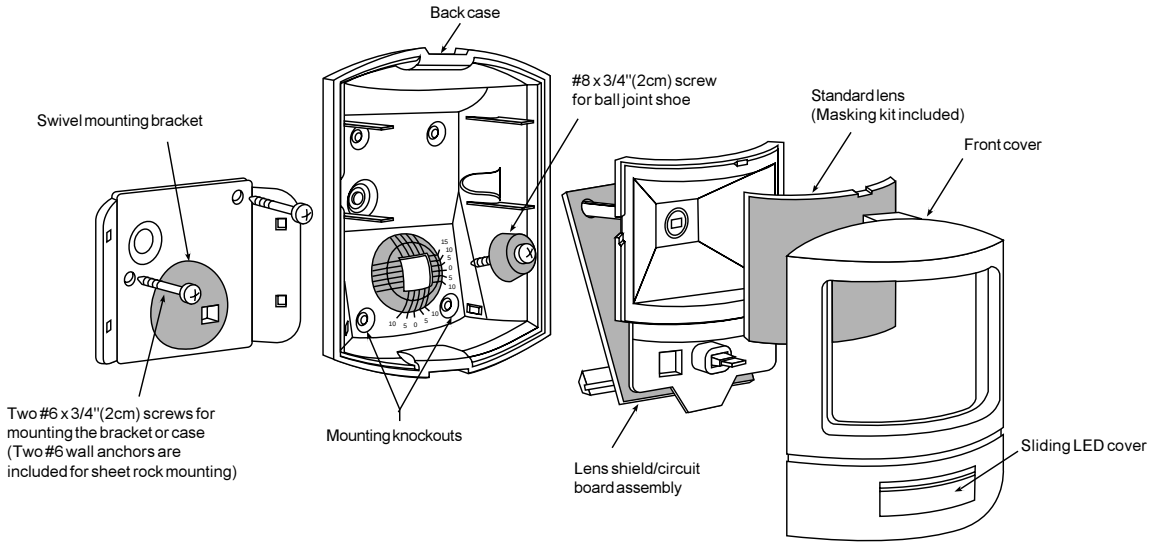
6150 Extended Temperature Series SharpShooter™ PIR

Installation Instructions
Models 6155XT, 6157XT



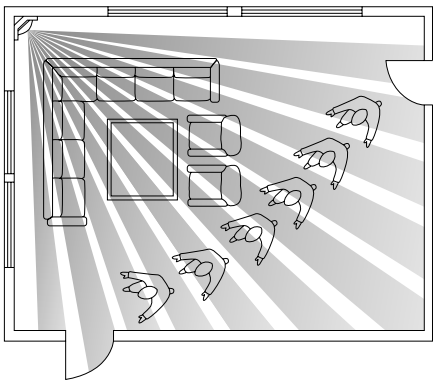
Description

The Sentrol 6150 Extended temperature series passive infrared detector is an advanced PIR detector that utilizes a dual pyroelectric sensor with jumper-selectable one- or two-zone detection. It also features a sequence processor that combines bi-directional pulse counting and event verification. An opaque, off-white, visible-light filtering fresnel lens focuses the infrared energy on the pyroelectric sensor while reducing false alarms from stray light sources. The unit features two interchangeable lenses: standard and vertical barrier.

Mounting Location

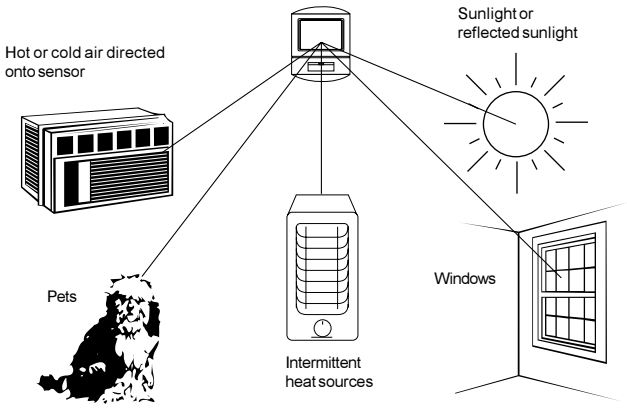
Locate for Cross Traffic

For maximum detection, place the unit where intruders move **across** the beams, not toward the unit.



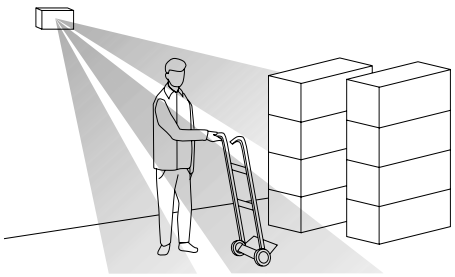
Avoid False Alarm Sources

For false-alarm-free operation, the unit should not "see" sources of heat or cold.



Do Not Block the Coverage Pattern

The unit requires a clear line of sight. Inform end-users not to block the coverage pattern with inventory or furniture.



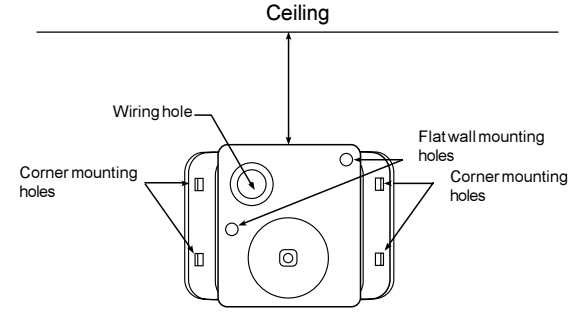
Mounting With the Swivel Bracket

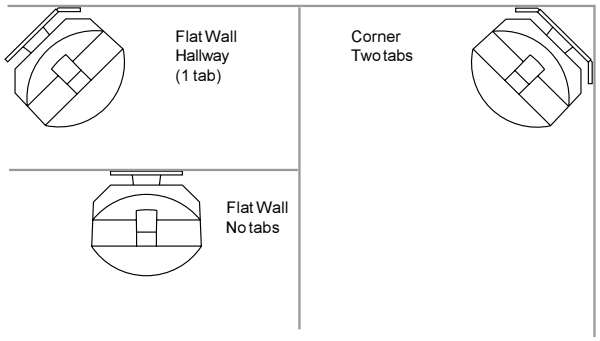
The swivel bracket allows aiming and adjusting the unit for maximum detection and avoidance of false alarms. You can mount the unit with or without the swivel bracket.

The swivel bracket's snap-off tabs allow angle mounting, such as for hallway protection. Break the tabs off by bending them back and forth. For optimal coverage when using the standard lens, mount 6'10" (2.1m) above floor.

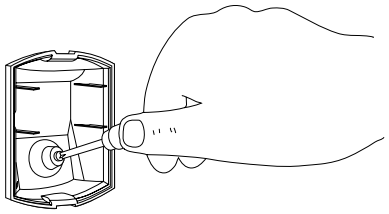
Use these screws for mounting:

- Two #6 x 3/4"(2cm) screws for mounting the bracket or the back case to the wall
- One #8 x 3/4"(2cm) screw for mounting the back case onto the bracket (insert into ball joint shoe)





Align the arrows on the ball joint shoe with the zeroes on back case for typical coverage. Turn the screw until snug.

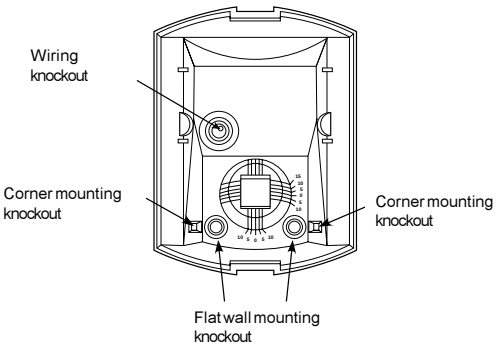


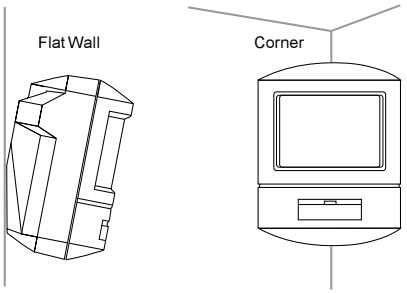
To **prevent false alarms**, no part of an unwanted "hotspot" should enter any part of a zone.

For **best detection**, an intruder should cross the entire zone.

Mounting Without the Swivel Bracket

For optimal coverage using the standard lens, mount 6'10" (2.1m) above the floor.



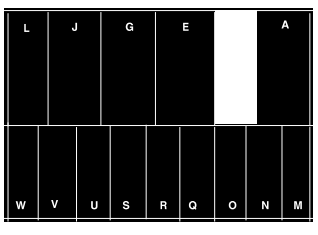


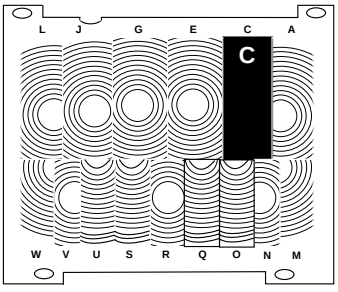
Masking

1. Unsnap the shield from the front cover by grasping the edge of the circuit board and gently rotating the lens shield/circuit board assembly. Remove the lens from the shield. Make sure fingers are clean.

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

2. Locate the lettered masking strip on the masking kit.
4. Peel off the masking strip and press onto the corresponding grooved segment on the lens. The notch of the lens must be up.
5. Re-install the lens in the shield. The notch on the lens matches the notch on the shield.
6. Snap the shield/circuit board assembly into the front cover.

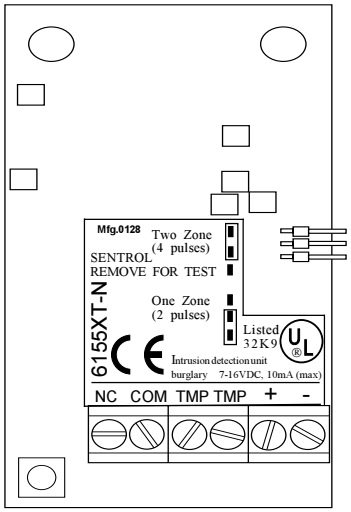


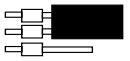


Selecting Zone Detection

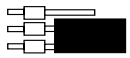
Selecting One-Zone or Two-Zone Detection

Position the jumper as shown to select one or two zone detection.





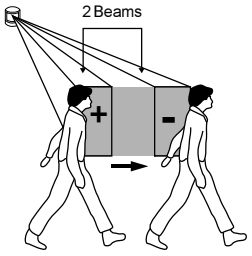
2-Zone Detection



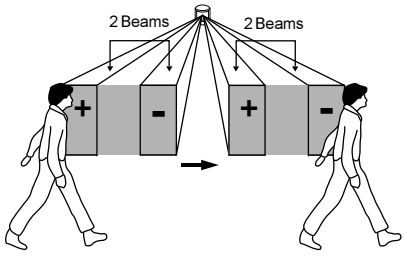
1-Zone Detection

Each zone is made up of two beams, one positive and one negative. With one zone selected, the unit detects the intruder moving across **one zone**.

With two zones selected, the unit detects the intruder moving across **two zones**. Two-zone detection is recommended to reduce chances of false alarms.



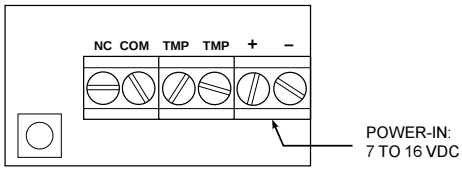
One-Zone Detection



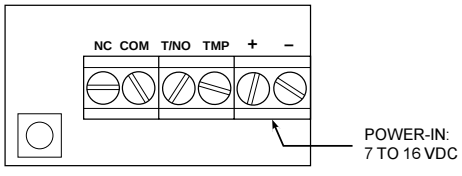
Two-Zone Detection

Wiring

Strip back the outer jacket on the wiring cable. This will allow wires to flex in the case. Make sure the cable is slack in the wall to avoid stressing the wires at their connections.



6155XT Model

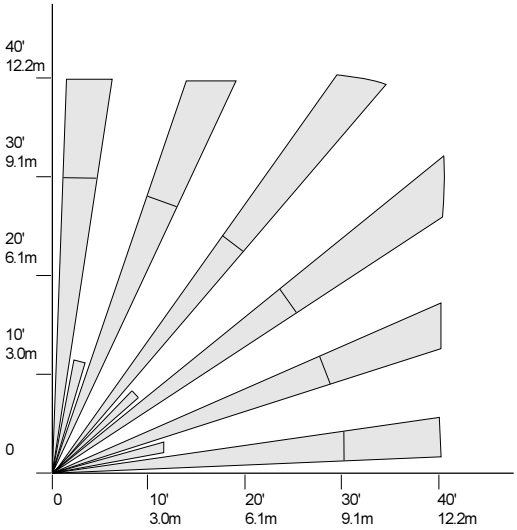


6157XT Model

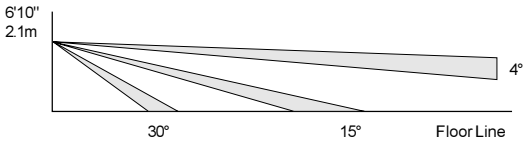
Zone Patterns

Standard

Top View

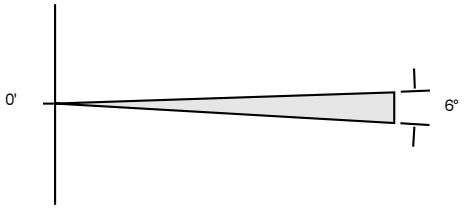


Side View

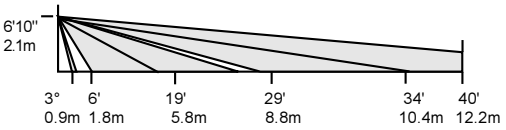


Vertical Barrier

Top View



Side View



Note

When mounting the unit at 6'10"(2.1m) (for typical coverage), align arrows on the ball joint shoe with zeroes on the ball joint. This is the 0° setting. For every 1' (0.3m) above the typical mounting height, tilt the shoe down 1°. For example, for 7'10" (2.4m), tilt down 1°; for 8'10" (2.7m), tilt down 2°; etc.

Completing the Installation

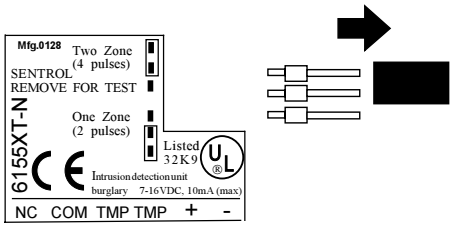
1. Reassemble the unit.
2. Seal the openings with RTV compound.
3. Perform a walktest to confirm correct operation.
4. Slide the LED cover up to hide the LED, if desired.

Troubleshooting with Test Mode

The unit has a test mode to:

- Verify the exact location of the beams
- Determine the unit's false alarm safety margin

To access the test mode, remove the zone-selection jumper. Removal of the jumper doubles the sensitivity (gain) of the unit and sets the output and LED to alarm as you enter each beam. Remember, there are two beams in each zone.

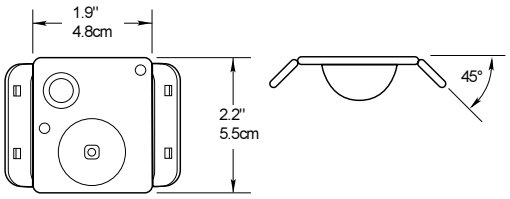


For further assistance, call Interlogix at **1-800-648-7424.**

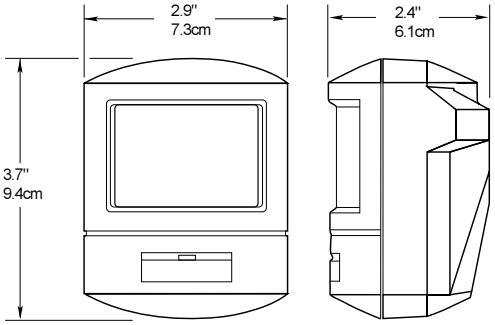
Specifications

Housing material	Flame retardant ABS
Voltage	7 to 16 VDC
Current	8 mA typical, 10 mA max
Maximum loop rating	16 VDC, 50 mA
Alarm output	Fail safe contacts with 10 ohms in series, 6155XT - Form A, Closed loop (NC) 6157XT - Form C, Closed and Open loop (SPDT)
Alarm duration	2 to 5 seconds
Cover tamper contacts	Closed loop, rating: 50 mA
Operating temperature	5° to 120°F (-15° to 50°C)
Humidity	10 to 90% non-condensing
RFI immunity	Greater than 10V/m from 0 to 1000MHz
Static/lighting immunity	2.5 KV, 2 joules max energy impulse, 1 msec rise / 50 msec decay
Pulse count	Bi-directional, 1 event (2 pulses) or 2 events (4 pulses)
Range (lenses)	Standard XT 40' (12.2m) x 90° Vertical Barrier XT ± 1.25°C
Minimum temperature differential	Standard XT ± 1° C Vertical barrier ± 1.25° C
Standard swivel bracket	±10° left/right, 10° up, 15° down
LED indicator	Walktest
Dimensions	Width 2.9" (7.3cm) Height 3.7" (9.4cm) Depth 2.4" (6.1cm)
Color	Off-White

Top View



Front View **Side View**



Product Ordering

Model	Loop Type	Electrical Configuration	Listing
6155XT	Closed	N.C.	UL
6157XT	Closed, Open	SPDT (N.C. and N.O.)	UL

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