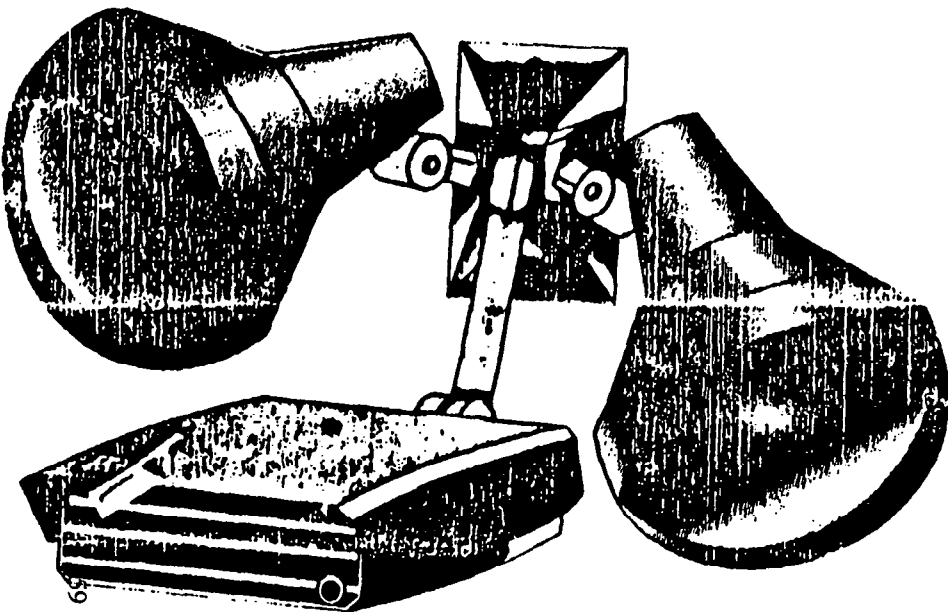


1380-2
Automatic Lights Attached to the 1380



1380-2 (control with two lampholders)

**WIRING INSTRUCTIONS FOR
1380-2**

This configuration requires only a simple two wire installation per the following steps:

1. **Caution:** Shut off power to affected circuit.
2. Bring power leads into box if not already present and attach ground wire to box grounding screw.
3. Position gasket on wires.
4. Strip $\frac{1}{8}$ " insulation off all leads. Connect power leads to switch leads (black to black and white to white).
5. Twist on wire nuts supplied.
6. Align gasket to insure proper all-around seal. Fasten cover to box.
7. Turn power on and turn light switch on (if used)

ADEMCO

Nos. 1380-1, 1380-2
AUTOMATIC
LIGHT SWITCHES

INSTALLATION INSTRUCTIONS

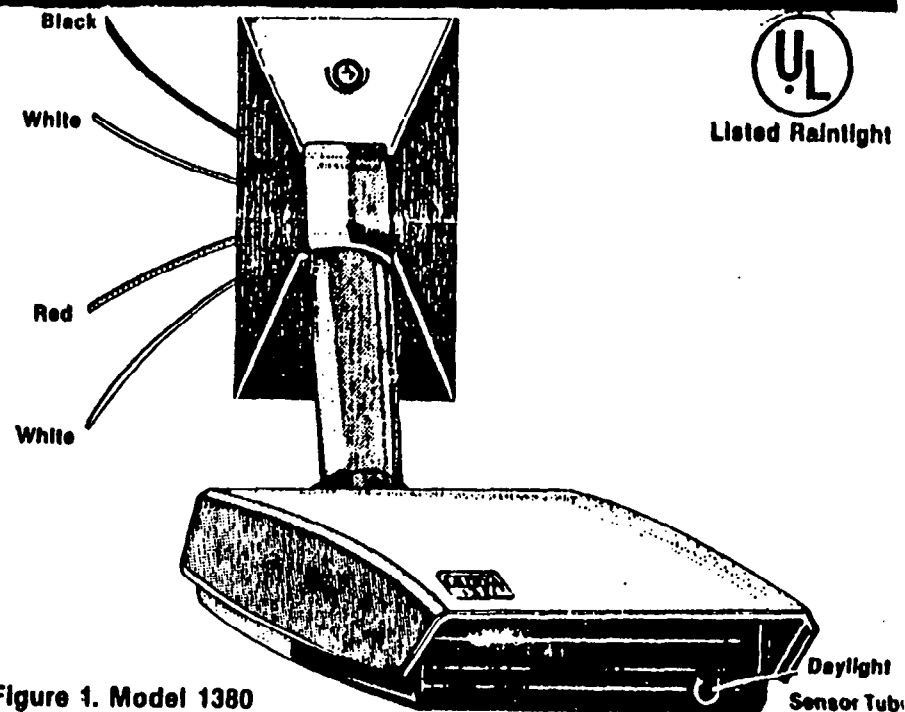


Figure 1. Model 1380

HOW IT WORKS

This automatic light switch represents the latest advancement in passive infrared technology. It detects rapid changes in temperature (infrared energy) whenever a person, auto, etc. moves through its invisible detection pattern. It emits no radiation and is harmless to humans and animals. This unit is designed specifically to switch up to a total of 500 watts non-inductive (incandescent) lighting in one or more fixtures. It can switch other devices, but during normal operation it will occasionally activate due to rapid environmental changes, pets, etc. Therefore, do not connect this unit to any alarm system, siren or loud audible device.

CAUTION

This light switch should only be installed by persons with experience in 120 VAC household wiring. Consult local building codes and read entire instructions before proceeding. Make sure your lighting load does not exceed 500 watts non-inductive (incandescent). Do not connect this unit with more than one 120V 60Hz power source.

SELECTING A LOCATION

The light switch should be located with the lens at bottom center and aimed down at the area of heaviest traffic. The sensor is most sensitive to motion across the pattern and least sensitive to movement toward or away from the lens. Avoid aiming at water pools or any object which may change temperature rapidly. Do not locate over heating vents or air conditioners. Never allow direct sunlight to shine straight into the grill as it may damage the infrared sensor. This includes laying it on the ground during a midday installation. **CAUTION:** Position the switch to the side or below lamp(s) so that heat from the lamps will not pass in front of the lens, and do not let the case touch the lampholder or lamp. **DO NOT MOUNT ABOVE THE LAMP(S).** Instability and/or irreparable damage may occur if this instruction is not followed. Consider also the accessibility and routing of the necessary wiring. The switch should be mounted on a weatherproof surface (or recessed) junction box with two-screw cover. Wire must run from this box to light fixture to be controlled and power must be wired to this box. Shut off electricity to all affected circuits before beginning work. (Note: the switch can be mounted on the lower side of a rigidly constructed light fixture with a 1/2" conduit hole.)

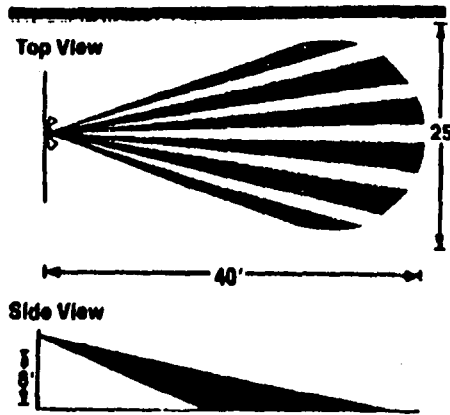
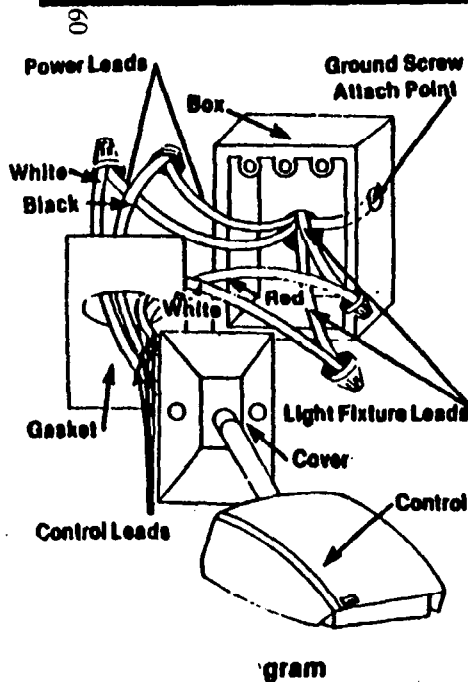
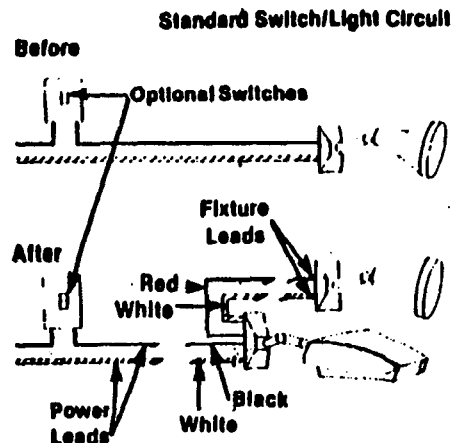


Figure 2. Detection pattern

WIRING (Refer to Figure 3)

1. Caution: Shut off power to affected circuit.
2. Bring power leads and light fixture leads into box. Attach ground wire(s) to box grounding screw.
3. Position gasket on wires.
4. Strip 1/2" insulation off all leads. Connect power leads to 1380 input lead (black to black and white to white). Connect 1380 output leads to light fixture leads (red to black and white to white).
5. Twist on wire nuts supplied.
6. Align gasket to insure proper all-around seal. Fasten cover to box.
7. Turn power on and turn light switch on (if used).



OPTICAL ADJUSTMENT

The mounting arm should be adjusted so the unit is level side to side, looking out horizontally or somewhat down. (Caution: Do not adjust unit to look above horizontal.) Loosen locking rings and elbow bolts to move unit.

WALK TEST

To allow unit to activate during daylight hours, cover daylight sensor tube with one or more small pieces of black electrical tape. (See Figure 1.) Adjust reset delay to MIN. Walk around the perimeter of the detection pattern and observe the reaction of the light. When pattern coverage is acceptable tighten locking rings and elbow bolts. Remove daylight sensor tube covering. Adjust reset timing to desired interval. (See Figure 4.)

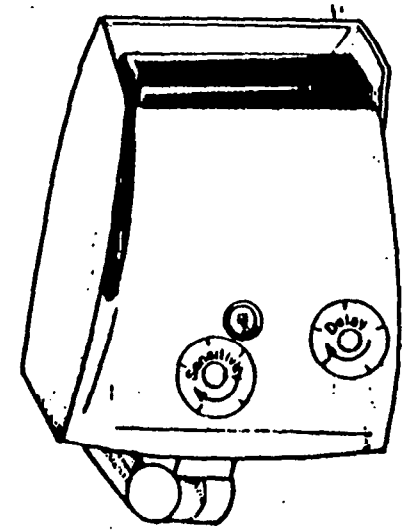


Figure 4. Bottom View

TIMING AND SENSITIVITY ADJUSTMENT (Figure 4)

The reset delay is variable from approximately 10 seconds to 20 minutes by adjusting the timing pot with the adjusting tool supplied or a small screwdriver. Turn clock-wise to increase reset delay. The sensitivity is factory set. To minimize responses to small animals and blowing bushes decrease sensitivity an eighth of a turn counter-clockwise at a time.

SERVICING

This unit requires no maintenance with the possible exception of keeping the lens area and daylight sensor clear of obstruction. A tamper-proof screw has been used in the construction because there are no user serviceable parts. Any attempt to disassemble the light control may void the warranty.

SPECIFICATIONS:

Detection Range:	40 feet by 25 feet wide (see Figure 2).
Detection Method:	Passive infrared (detects thermal radiation).
Sensitivity Adjustment:	Can be varied over a sensitivity range of approximately 5 to 1
Power Consumption:	One watt maximum.
Power Requirement:	120 Volts AC.
Power Switching Capability:	500 watts (incandescent load).
Time Delay:	10 seconds to 20 minutes (approximate).
Aiming Capability:	Any direction (see Optical Adjustment).
Weatherproofing:	The case is designed for outside location and the electronics are specially protected from moisture.