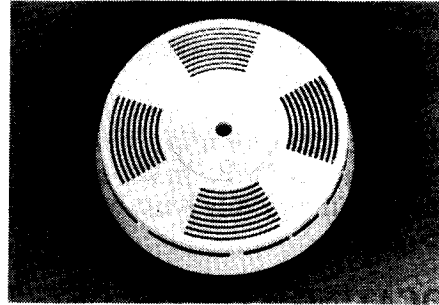


ESL SMOKE SENSOR

Model SMK-2, Part #60-032. Underwriters Laboratories
Listed Single Station Smoke Detector.

The ESL Smoke Sensor (SS) is a photoelectric type that contains its own alarm horn and low battery annunciator. It has an output that will trip a special transmitter already built into the detector. The built in alarm will sound as long as smoke remains in the detector. It is powered by two 9 volt alkaline batteries. The unit will make a short "beep" sound every minute when the smoke detector's battery becomes low. If the transmitter battery becomes low it will send a LOW BATTERY report to the SX-IVB.



**THIS SMOKE DETECTOR REQUIRES DURACELL BATTERIES.
DO NOT USE ANY SUBSTITUTES.**

Refer to the Owners Manual included with each smoke detector for detailed information on the detector. Also, be sure to give the Smoke Detector's Owners Manual to the purchaser of the system after the installation is complete.

Additional information on Household Fire Warning is available at nominal cost from: The National Fire Protection Association, Battery March Park, Quincy, MA 02269. Request NFPA Std. 74.

LOCATING THE SMOKE SENSOR

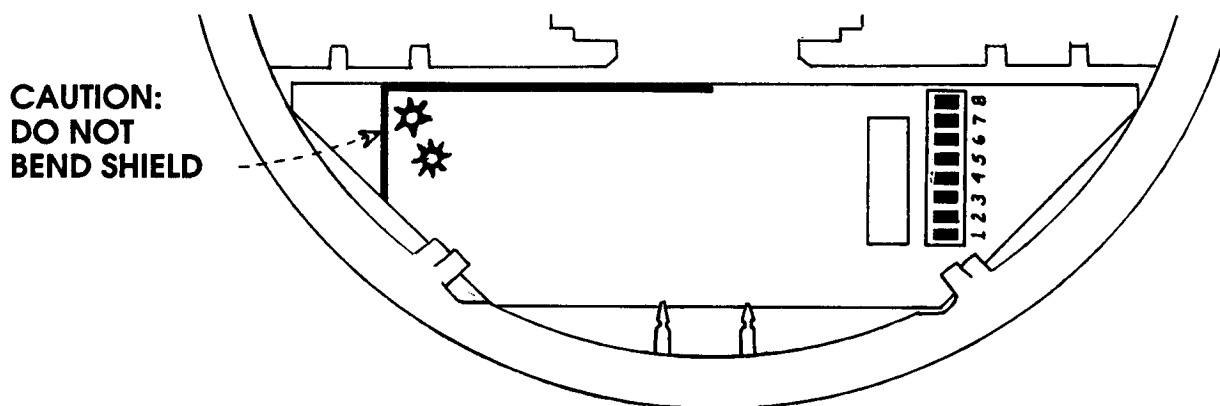
While it is not possible to get too specific about smoke detector location (since each house has different design requirements), there are some guidelines that can be followed. Refer to the detector's Owners Manual for detailed information on detector location. Some additional hints appear below:

- * Determine the best locations for each smoke sensor so as to optimize early detection and maintain accessible escape routes out of the building.
- * Stairways - A smoke detector should be located at the bottom of the basement stairwell(s). For all other levels, it is usually best to locate smoke detectors at the top of the stairwell.
- * Sleeping Areas - A smoke detector should be located in any hallway servicing bedrooms. For maximum protection, place a smoke detector inside each bedroom, especially smoker's bedrooms or bedrooms where electric blankets or other electrical devices are used.
- * Ceilings - Whenever possible, mount detectors on ceilings, as close to the center as possible. When mounting on ceilings, make sure that the detector is no closer than 4 inches from any wall. For wall mounting, make sure that the nearest edge of the detector is at least 4" and no more than 6" from the ceiling.
- * Avoid mounting detectors on any sloped surface.

PROGRAMMING THE SMOKE SENSOR'S TRANSMITTER

Open the smoke sensor's hinged cover by removing the mounting bracket and releasing the cover latch by pushing on the plastic tab recessed into the bottom of the detector.

Program the smoke sensor transmitters proper HOUSE CODE and SENSOR NUMBER by properly setting the switches on the eight position dip switch on the bottom of the smoke sensor.



Switches 1 and 2 set the HOUSE CODE; 3-5 the first digit of the SENSOR NUMBER; and 6-8 the second digit of the SENSOR NUMBER.

SELECTING THE "HOUSE CODE"

To select the correct HOUSE CODE you must correctly set switch 1 and switch 2 of the 8 position switch block as follows:

HOUSE CODE	SWITCH #	
	1	2
0	OFF	OFF
1	OFF	ON
2	ON	OFF
3	ON	ON

SELECTING THE SENSOR NUMBER

To select the correct 2 digit SENSOR NUMBER you must correctly set switches 3-5 for the first digit and 6-8 for the second digit.

SENSOR NUMBER	1st DIGIT SWITCHES			2nd DIGIT SWITCHES		
	3	4	5	6	7	8
20	OFF	ON	OFF	OFF	OFF	OFF
21	OFF	ON	OFF	OFF	OFF	ON
22	OFF	ON	OFF	OFF	ON	OFF
23	OFF	ON	OFF	OFF	ON	ON
24	OFF	ON	OFF	ON	OFF	OFF
25	OFF	ON	OFF	ON	OFF	ON
26	OFF	ON	OFF	ON	ON	OFF
27	OFF	ON	OFF	ON	ON	ON

INSTALLING THE SMOKE SENSOR

Mount directly onto wood surfaces using the screws provided with every detector. If mounting onto plaster or drywall be sure to use the plastic screw anchors provided. Drill a 3/16" hole for the plastic anchors.

TESTING SMOKE SENSORS.

The following procedure can be used for testing. This procedure can be done now or you can wait until the final testing of the entire system.

1. Make sure that the CPU is programmed with the sensor number(s) of the smoke sensor(s) being installed. If they are not, program them into the CPU following the procedure outlined in the section PROGRAMMING THE SX-IVB.
2. Arm the CPU to protection Level 9 (SENSOR TEST). The sensor numbers of the smoke sensors being tested should scroll through the CPU display window.
3. Refer to the Smoke detector's installation manual for testing procedures.

Optionally "canned smoke" or some other smoke source (a smoldering hemp rope) can be used to test the detector. Use canned smoke sparingly, a one or two second spray from 2-3 feet will be sufficient. Don't give a can to your customer. Too frequent use may affect detector sensitivity.

4. Check the scrolling sensor numbers on the CPU. The sensor transmitted successfully if the detector's sensor number is no longer displayed.
5. It is a good idea to check the CPU fire alarm by disarming to Level 0 and setting off the detectors. Any sirens should sound with a steady loud siren. The smoke sensor alarm will stop a few seconds after the test button is released.

NOTE 1: The alarm system sirens and the smoke sensor's built in siren will BOTH sound when smoke is detected. The CPU alarm is cancelled from the Wireless Touchpad (access code + 0) and the detector's alarm is cancelled by fanning the detector free of smoke, or by releasing the test button.

NOTE 2: If the phone jack is plugged in, the Central Station* will receive the alarm. The Central Station* must be informed before testing begins.

* U.L. NOTE: The ITI Central Station Receiver has not been investigated by U.L.