

No. 627D PRODUCTS OF COMBUSTION DETECTOR

GENERAL DESCRIPTION

The No. 627D is a dual chamber 24 volt products of combustion detector designed for use in small to moderately sized fire systems. It is designed for use with Ademco's No. 625 Master Control and associated equipment. Before installing, please review carefully, the "Application Notes for System Products of Combustion Detectors", pg. 64 and the "Installation Instructions for Ademco's No. 625 Fire Early Warning System", pg. 40. Full specifications for the No. 627D appear in Table 1 below:

TABLE 1

Voltage	24VDC
Maximum Standby Current	100 uA
Maximum Alarm Current (mA)	Limited by No. 625 Control Panel
Alarm Relay	No

WIRE SELECTION

All wiring must be installed in compliance with the National Electrical Code or local codes having jurisdiction. Proper gauge wires should be used. Each conductor should be identifiable to avoid wiring mistakes. Table 2 will serve as a guide for wire selection when measuring length. (Distance from No. 625 Control Panel to the No. 629 end-of-Line module).

TABLE 2

WIRE SIZE (AWG)	LENGTH (FT)
18	3900 ft.
16	6000 ft.
14	9500 ft.

MOUNTING

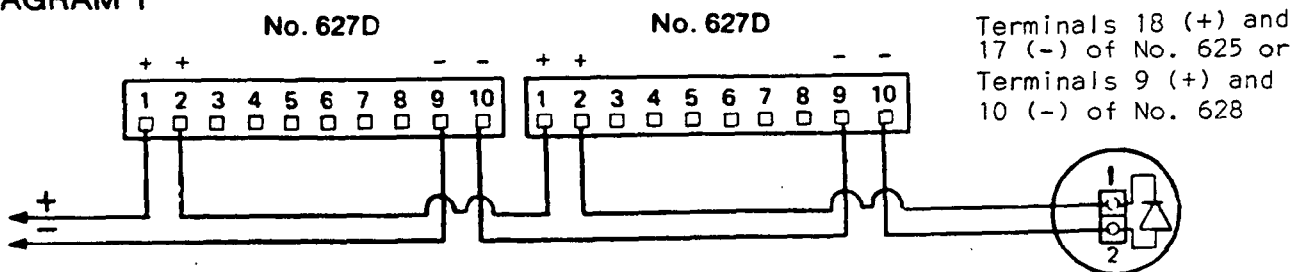
The No. 627 Detector can be mounted;

- (1) Directly to a 4" octagonal or 4" square 1½" deep (#125 or equivalent) electrical box. (See Diagram 2 for mounting hole location).
- (2) Directly to the ceiling using the mounting kit provided with the detector. Use the detector base as a template and drill two 3/16" holes for the plastic screw anchors.

WIRING

See Diagram 1 for wiring of the No. 627D to the No. 625 Control Panel, the No. 628 Zone Module, and the No. 629 End-of-Line Module.

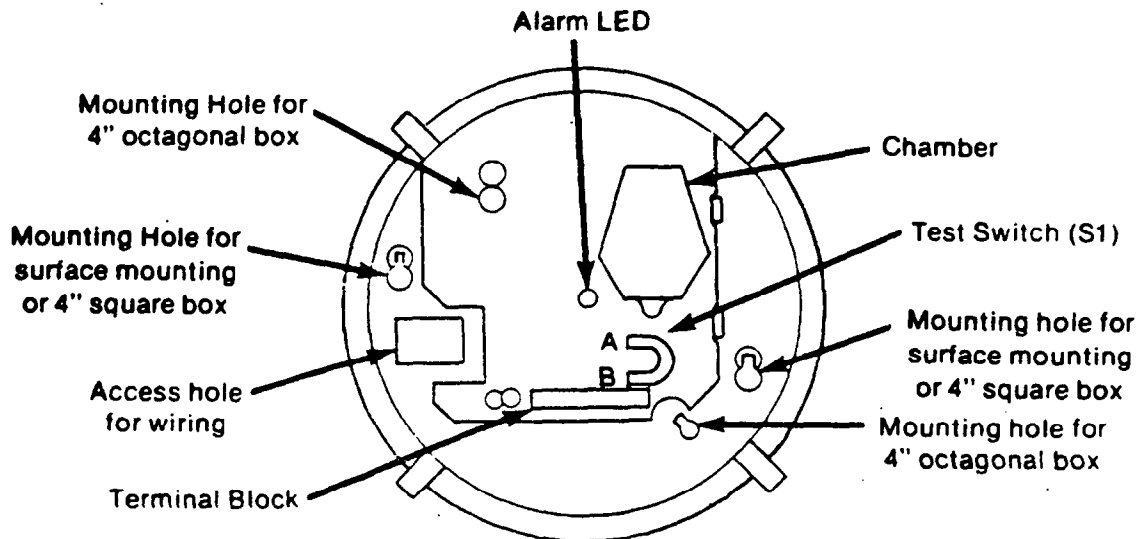
DIAGRAM 1



SENSITIVITY TESTING

Remove the cover from the detector. Verify that power is being supplied. (See diagram 2 for parts locations). The sensitivity test switch is located in the area below the chamber to the right of the terminal block and is labeled S1. To check sensitivity, depress and hold the upper part of S1. (labeled A). The detector must alarm (allow about 10 seconds), and the alarm L.E.D. must light. Reset the detector by removing power. If it fails the test, follow the cleaning procedure and then retest. If it still fails to operate properly, the unit must be returned to Ademco for repair.

DIAGRAM 2: PARTS LOCATION



MAINTENANCE AND CLEANING

The No. 627D has been designed to be as maintenance free as possible. Normal dust in the atmosphere, however, can accumulate in the chamber and will cause the detector to become more sensitive. Detectors should be cleaned at least once per year and more often when used in dusty areas. Detectors must be cleaned immediately after a fire. Failure to maintain detectors may result in needless false alarms.

TO CLEAN DETECTORS

- A. Turn off power to the system
- B. Remove cover from the detector
- C. Use a vacuum cleaner and remove dust from openings on detector chamber
- D. Restore system power
- E. Perform sensitivity test
- F. Replace cover on detector