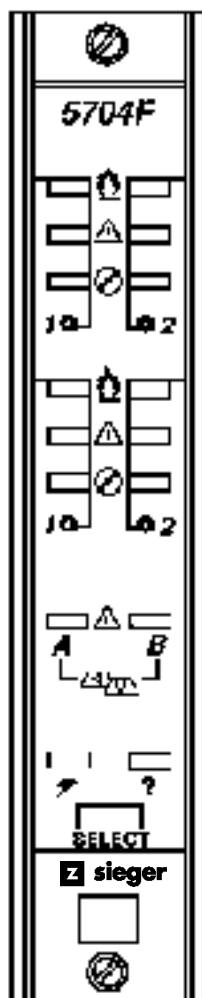


CHAPTER 2 - SYSTEM DESCRIPTION

4. FOUR CHANNEL FIRE CONTROL CARDS

4.1 5704F Fire Control Card (Part Number 05704-A-0146)



The 5704F Four Channel Fire Control Card provides control, display and alarm facilities for up to four separate loops (or zones) of fire detection. Depending upon the type of detector each loop may have more than one detector. The card also provides two fault monitored switched dc outputs and a minimum of six volt free outputs. The front panel uses clear LED displays to indicate the status of all input and output loops and card status. A push-button is provided for selecting the card for use with the Fire Status Panel and Engineering Card.

The operation of the control card is microprocessor controlled and is fully definable for a wide range of connected fire detectors and application requirements. The setup information is stored in a non-volatile memory on the fire card. A number of user selectable jumper links are also provided for compatibility with some system requirements.

The single fire card covers all common applications, no other plug-in modules are required.

4.2 Control Functions

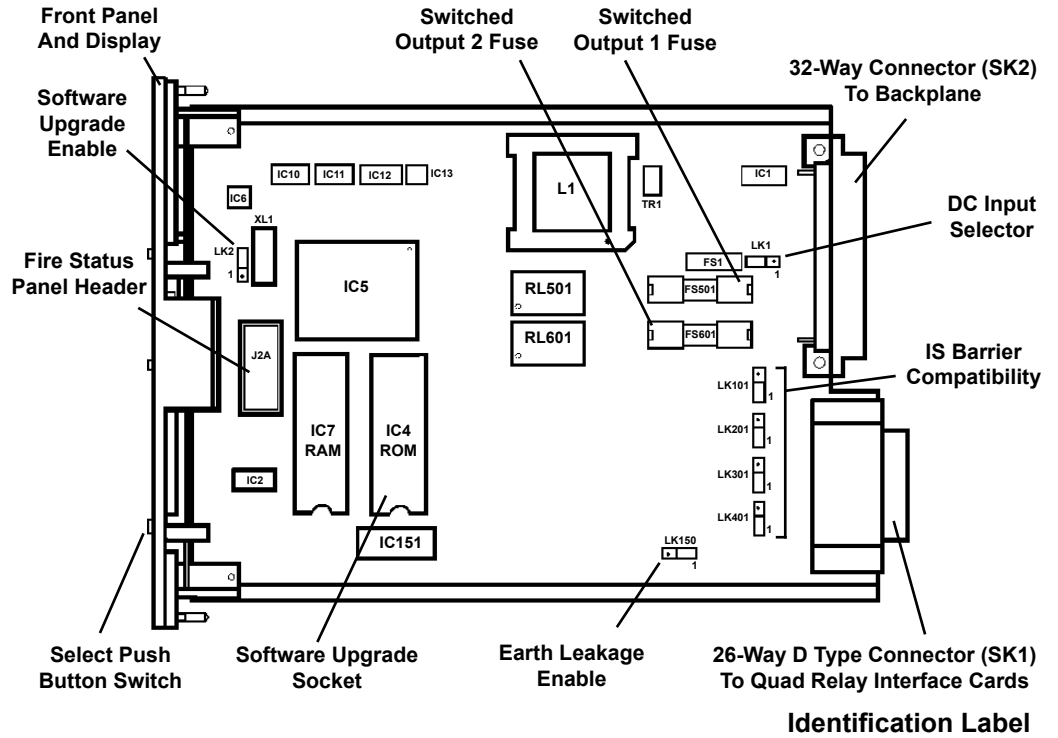
The 5704F Four Channel Control Card carries out the control functions for up to four loops of fire detection as follows:

- a. Provides the necessary voltages and currents to drive the connected sensors.
- b. Processes the incoming sensor signals.
- c. Compares each loop input signal level with pre-defined fault and alarm limits.
- d. When the pre-defined limits are exceeded, raises the alarm or fault indications by lighting up front panel LEDs and operating the relay and/or switched dc outputs.
- e. Informs other cards of the input status information.
- f. Self validates the operation of its circuit components, software operation and the condition of the loop inputs, remote input and dc switched outputs.

CHAPTER 2 - SYSTEM DESCRIPTION

4.3 Physical Layout

The physical layout of the Four Channel Control Card is shown below:

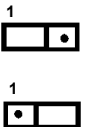


Various user selectable link settings may be required and the link default positions and functions are as follows:

LK1 DC Input Selector

Default position 1 to 2 to power card from backplane.

Link 2 to 3 to isolate the card +24V dc from backplane when the card is individually powered



LK2 Software Upgrade Enable

Default position 2 to 3 for internal ROM.

Link 1 to 2 to enable the external ROM operation when fitting an upgrade EPROM into socket IC4.

