692F Fire Command LED Keypad

Description
The 692F Fire Command LED Keypad offers 5 sets of highly visible LED annunciation of alarm and trouble conditions on DMP XR5FC and XR5SL Commercial Fire/Communicator Panels. The 692F provides individual zone alarm and trouble LEDs for zones one to five. Also, system LEDs, an internal sounder, 2-button Fire alarm initiation, and Silence, Reset, and Fire Drill functions are provided. The 692F operates on 8.0 to 16 VDC at 30mA in normal mode and can draw up to 70mA in alarm.

Removing the Keypad Base
The 692F is made up two parts: the front, containing the circuit board and other components, and the base. To remove the base, insert a flat screwdriver into one of the openings on the bottom and carefully twist it while gently lifting the keypad from the base. Repeat with the other opening, then lift the keypad from the base.

Inserting the Reference Card
A reference card has been supplied with the 692F keypad. The reference card is provided to assist the users when operating their security systems. Write the zone descriptions on the front of the card. Slide the card in the back of the base before installing the keypad. Refer to Figure 1 for reference card installation.

Installing the Keypad
The 692F has been designed to easily install on any 4-square box, 3-gang switch box, 695 and 696 backbox, or on any flat surface. Figure 1 shows the mounting hole locations on the keypad base.

Wiring the Keypad
The 692F keypad is supplied with a single 4-wire harness for connection to the XR5FC to XR5SL panel's keypad data bus wiring. Connect the 4-wire harness to the back of the PCB as shown. Then connect the wires to the panel terminals 7, 8, 9, and 10.
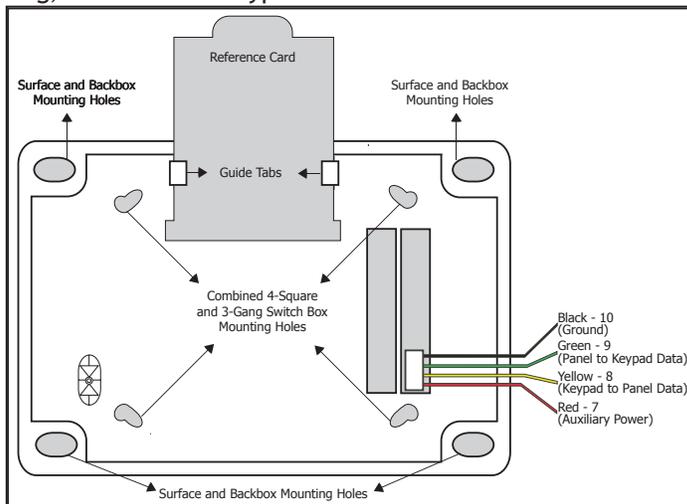

Figure 1: 692F Wiring and Mounting Diagram

Buzzer Operation
Each time a user presses a key on the 692F, the buzzer emits a short tone. After the user performs a successful keypad operation, the buzzer emits a 1/2 second tone. If the operation is not successful, the buzzer emits four short tones. This alerts the user to perform the function again. During trouble conditions, the keypad emits a steady tone to alert the user. Entering the user code silences the buzzer.

Keyboard Backlighting
The keyboard on the 692F lights anytime a key is pressed or the alert buzzer sounds making it easy for users in darkened rooms to enter their code or perform a command.

984 COMMAND
Enter 984 + COMMAND to allow the panel to pick up the phone line when a Remote Link™ computer is calling the panel. If the panel was previously programmed to answer calls from Remote Link™, the panel will answer automatically.

Enter 984 + COMMAND plus up to a 15-digit phone number to contact a Remote Link™ computer from the panel.

Zone Alarm and Trouble LEDs
The 692F contains five red zone alarm LEDs and five yellow zone trouble LEDs. The red alarm LEDs turn on steady during an alarm condition and turn off when the zone has restored to normal and a Sensor Reset has been performed. If the zone alarm or trouble is a Supervisory type zone, the LED pulses (1 second on, 1 second off).

The yellow trouble LEDs turn on during a trouble condition, turn off when the zone restores to normal, and wink (1/4 second on, 1 3/4 second off) when the zone has been bypassed.

Three System LEDs
The 692F has three system LEDs. The system LEDs are located near the top left corner of the keypad.

Yellow Silenced LED turns on when the bells are silenced manually from the keypad or after the Bell Cutoff time. The Silenced LED turns off if the alarm sounds again or when a Sensor Reset is performed.

Yellow Trouble LED turns on when the panel has failed to communicate with the central station receiver after 10 attempts, or when phone line 1 or 2 is in a bad condition. The Trouble LED turns off after a successful communication to the central station, or when the phone line(s) are restored to normal. The yellow Trouble LED also flashes if the keypad loses communication with the panel.

Green Power LED turns on steady when there is AC or DC power to the panel, and is off when power is lost. The Power LED flashes when the panel's battery is low or missing.

Figure 2: 692F Keypad

Keypad Function Keys

SILENCE - Press the **SILENCE** key and enter the user code to silence a system alarm and the keypad sounder. You may also use the **SILENCE** key to silence the bells during the Fire Drill function.

RESET - Press the **RESET** key and enter the user code (or press COMMAND 47) to reset a zone after an alarm. This resets all zone alarm LEDs and momentarily drops power to the panel's zones 2 to 5 and smoke power output.

TEST - Press the **TEST** function key and enter the user code (or press COMMAND 41) to initiate the panel's System Test function. This test rings the panel bells for 2 seconds, checks the battery charge level, and sends a system test report to the central station on monitored systems.

CODE - To change the system user code, press **CODE**, enter the current user code followed by 0 + 1, and then enter the new 4-digit user code. (The user code must always be 4 digits.)

SPECIAL- Pressing the **SPECIAL** key and entering the user code initiates the Fire Drill function. The Fire Drill sounds the alarm bells and keypad sounder for the duration of the Bell Cutoff time. If the Bell Cutoff time is set to zero, the Fire Drill will continue until the bells are silenced by entering a code. No keypad LEDs are turned on and no reports are sent to the central station during the Fire Drill. In the event of a real fire during a fire drill, the system will send a report to the central station and the LED for any zone detecting a fire will glow red on the 692F.

Manual Fire Alarm - To manually initiate a fire alarm, press and hold the **TEST** and **CODE** keys simultaneously for about 2 seconds until the alarm sounds.

Wiring Specifications

When planning a keypad bus installation, keep in mind the following specifications:

1. DMP recommends using 18 or 22-gauge **unshielded** wire for all keypad and LX-Bus circuits. **Do Not** use twisted pair or shielded wire for LX-Bus and keypad bus data circuits. To maintain auxiliary power integrity when using 22-gauge wire do not exceed 500 feet. When using 18-gauge wire do not exceed 1,000 feet.

2. Maximum distance for any one circuit (length of wire) is 2,500 feet regardless of the wire gauge. This distance can be in the form of one long wire run or multiple branches with all wiring totaling no more than 2,500 feet. As wire distance from the panel increases, DC voltage on the wire decreases.

3. Maximum number of devices per 2,500 feet circuit is 40.
   Note: Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode. Refer to the panel installation guide for the specific number of supervised keypads allowed.

4. Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2.0 VDC. If the voltage at any device is less than the required level, add a regulated, power limited, power supply listed for Fire Protective Signaling at the end of the circuit. When voltage is too low, the devices cannot operate properly.

Refer to the LX-Bus/Keypad Bus Wiring Application Note (LT-2031) for more information. Also see the 710/710F Module Installation Sheet (LT-0310).
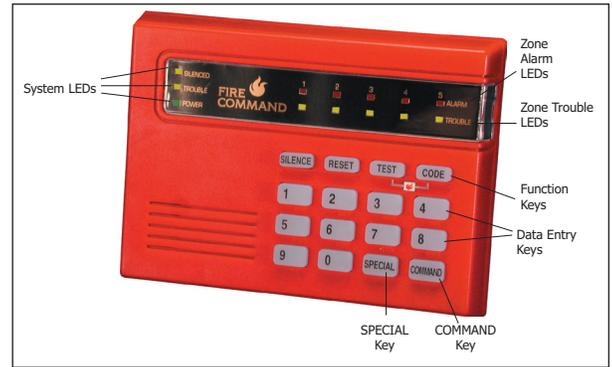
Specifications	
Operating Voltage	8.0 to 16 VDC
Current Draw	30mA standby, 70mA max
Dimensions	5.0" H x 6.8" W x 1.1" D

Panel Compatibility
XR5FC and XR5SL

Listings and Approvals
FCC Part 15
California State Fire Marshal (CSFM)
New York City (MEA)
Underwriters Laboratories (UL) Listed
   UL 864 Fire Protective Signaling