COMPLIANCE LISTING GUIDE

XF6 Series

DIGITAL MONITORING PRODUCTS, INC.

MODEL XF6 FIRE CONTROL PANEL
COMPLIANCE GUIDE

FCC NOTICE

This equipment generates and uses radio frequency energy and, if not installed and used properly in strict accordance with the manufacturer's instructions, may cause interference with radio and television reception. It has been type tested and found to comply with the limits for a Class A computing device in accordance with the specification in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the installer is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna

Relocate the computer with respect to the receiver

Move the computer away from the receiver

Plug the compute into a different outlet so that computer and receiver are on different branch circuits

If necessary, the installer should consult the dealer or an experienced radio/television technician for additional suggestions. The installer may find the following booklet, prepared by the Federal Communications Commission, helpful:

"How to identify and Resolve Radio-TV Interference Problems."

This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402

Stock No. 004-000-00345-4

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This information is subject to change without notice.

BEFORE YOU BEGIN

This guide provides compliance information for the DMP XF6 Series Control Panels. After this Introduction, the remaining sections describe the functions along with the available options. Before starting, we recommend that you read through the contents of this guide. The information contained here allows you to quickly learn the operation, functionality, and programming options of the panel to meet specific applications.

This guide covers all the requirements for the following panels:

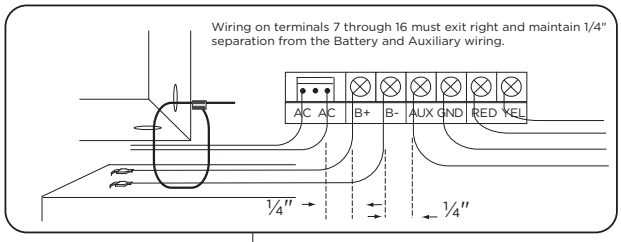
- XF6-100/XF6-100K
- XF6-500/XF6-500K

Note: Model XF6-100K and Model XF6-500K come with the Model 630F Remote Annunciator installed in the door.

WIRING DIAGRAMS

System Diagrams

The following pages show examples for wiring requirements.



28 VAC 130 VA wire-in transformer

Maximum 12/24VDC output per circuit (Cannot exceed 3.5 amps combined output)

24 VDC Circuits:

- NAC 1 - 2.5 A
- NAC 2 - 2.5 A
- Battery Charging - 2.3 A
- SMK/AUX - .75 A (Special Application)

12 VDC Circuits

- Keypad - 1 A
- LX-Bus - .70 A each
- X-Bus - .7 A each

NAC Circuit:
Supervised, Power Limited Battery Backup

Regulated 0.25A

Special Application 2.5A

Maximum Line Loss 2V

NAC circuits sync individually and not with each other

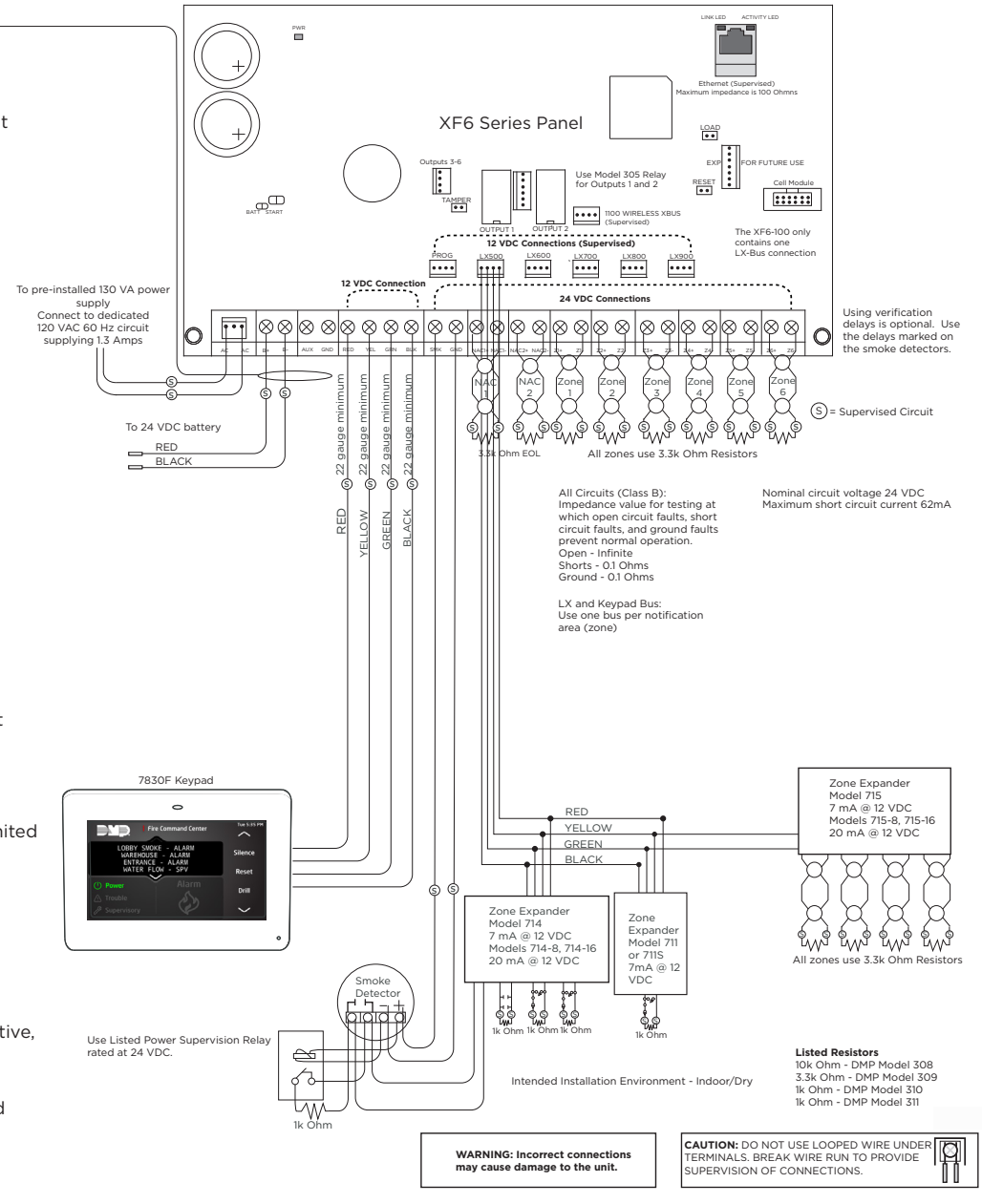
Smoke/Auxiliary Power:
Supervised (Ground Only), Power Limited

Battery Backup
24 VDC nominal rated voltage

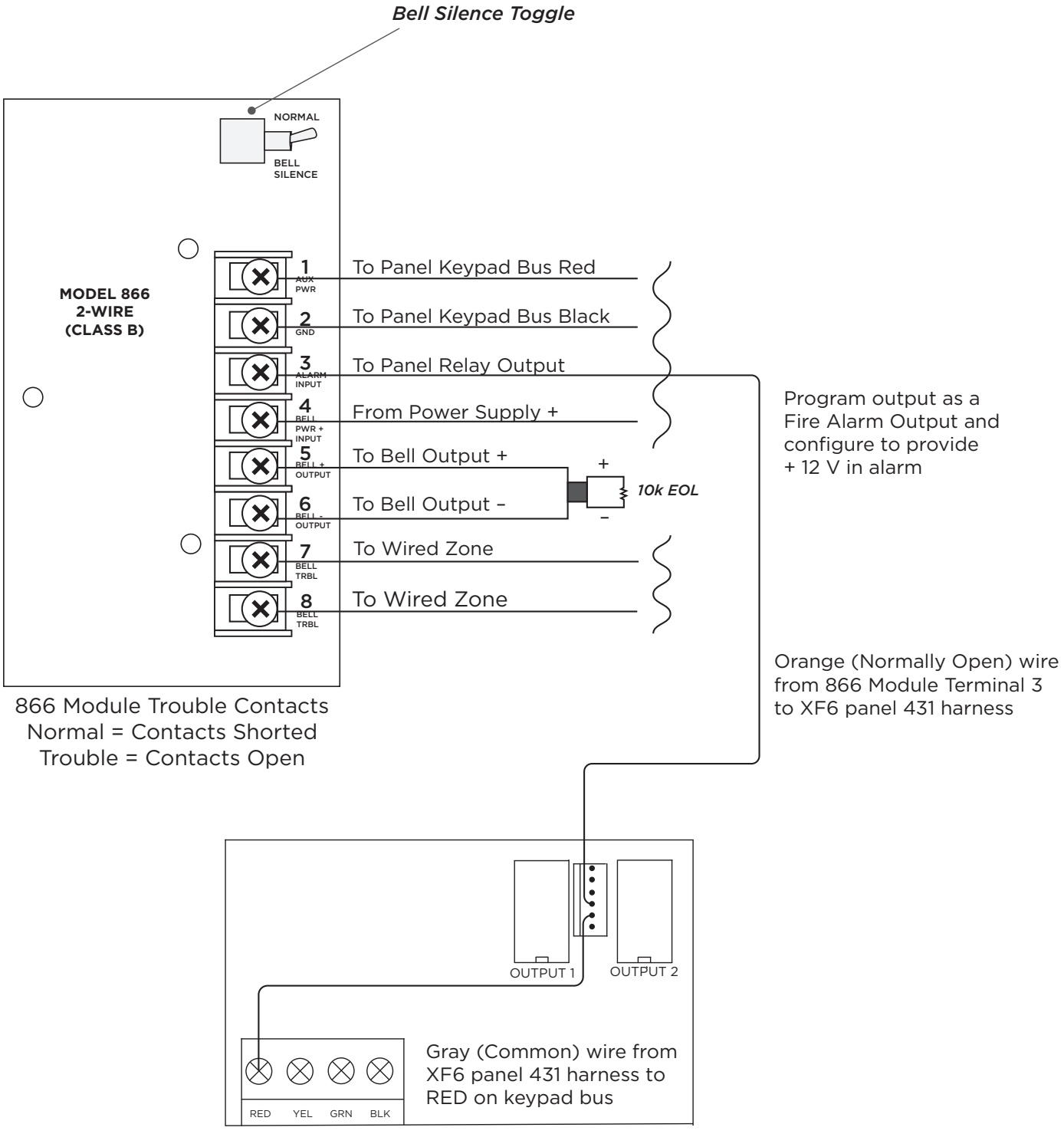
Form C Relays
Programmable
3.0 VDC, 1 A, 0.35 power factor, Resistive, Power Limited

All circuits are inherent Power Limited except the red battery wire and AC terminal.

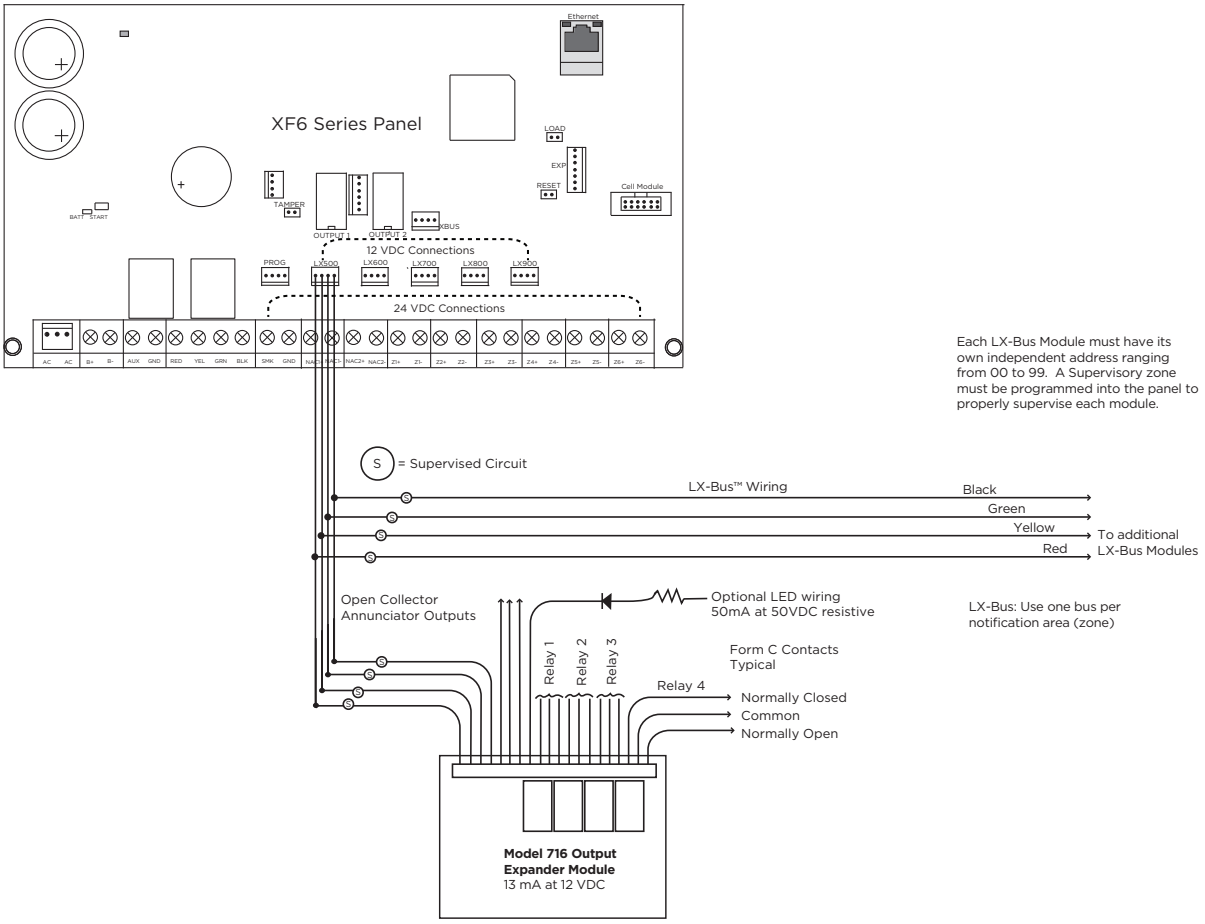
Open Collector Outputs 3-6,
Programmable
12V 30mA
The open collector output must be connected to devices located within the same room as the panel.



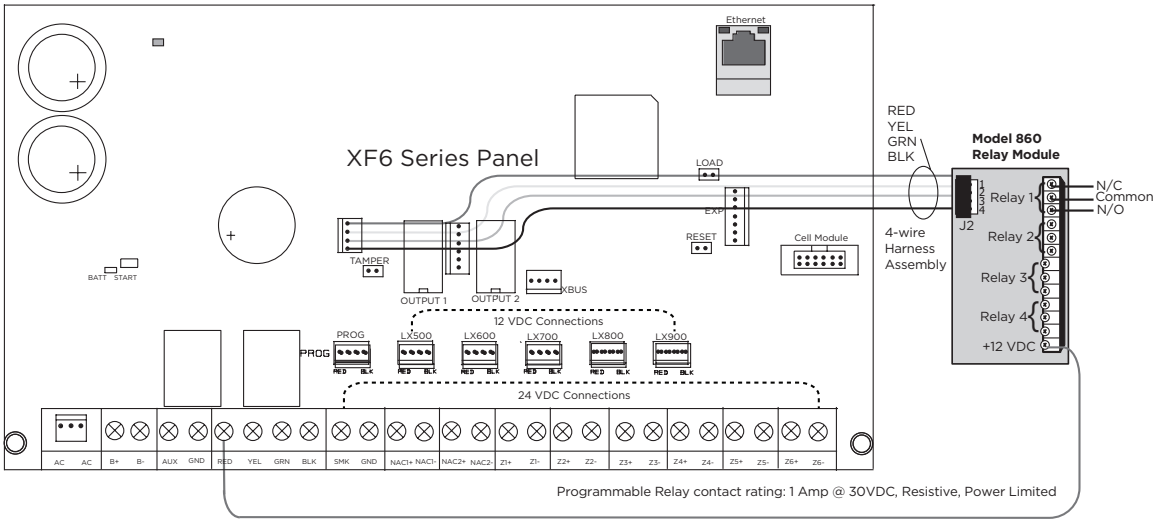
866 with NAC Extender



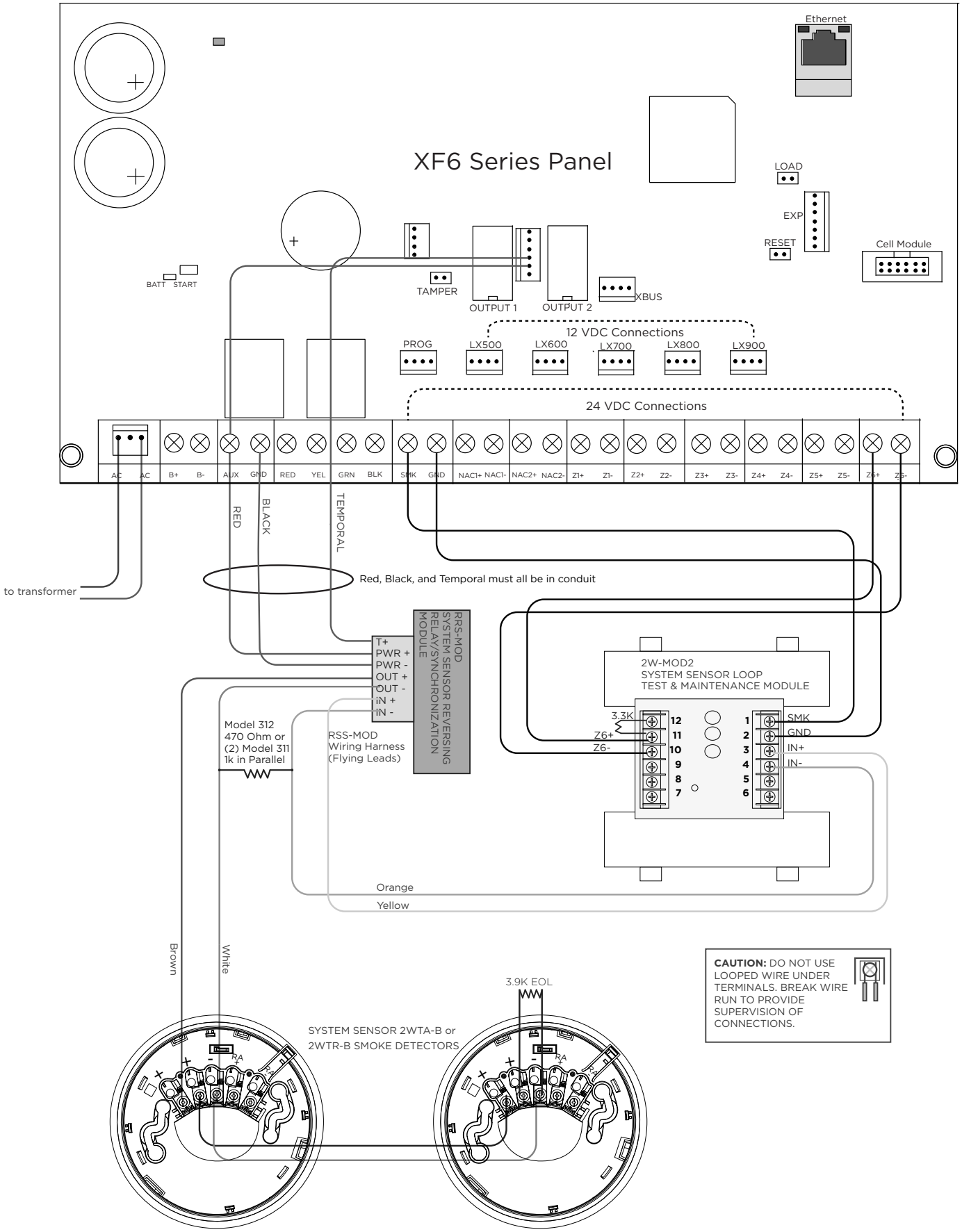
LX-Bus™ Module Connection



Model 860 Relay Module Connection

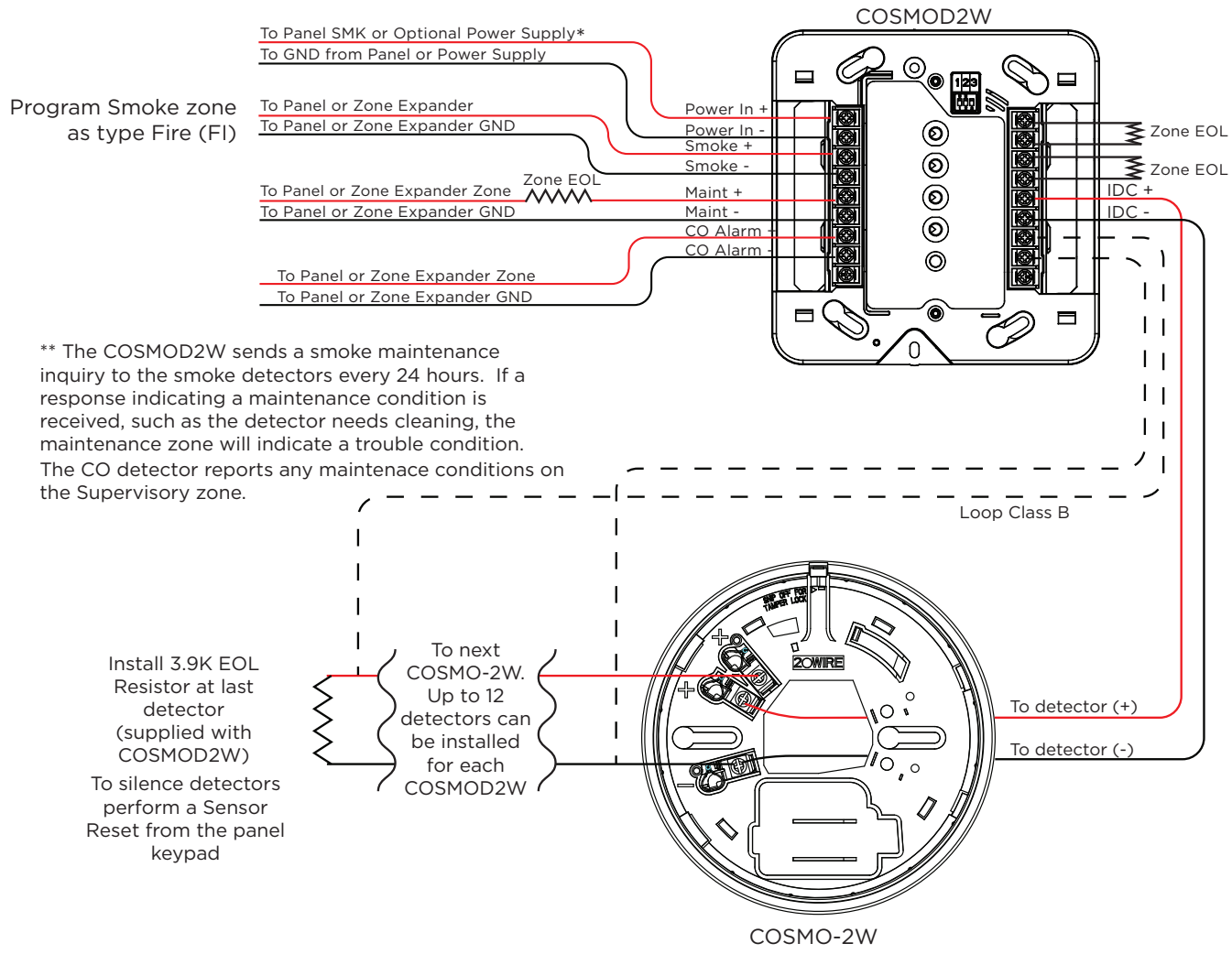


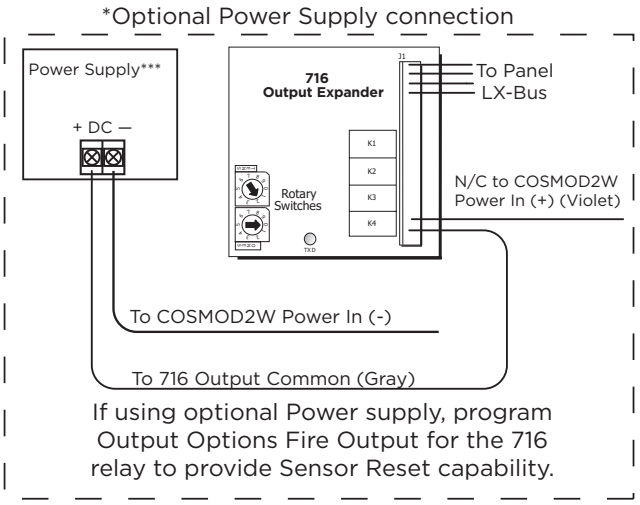
System Sensor 2-Wire Smoke Detectors



System Sensor i4 Series Smoke and CO Detectors Using A Single COSMOD2W Module

See i4 Series Interface Module Installation and Maintenance Instructions for additional information.

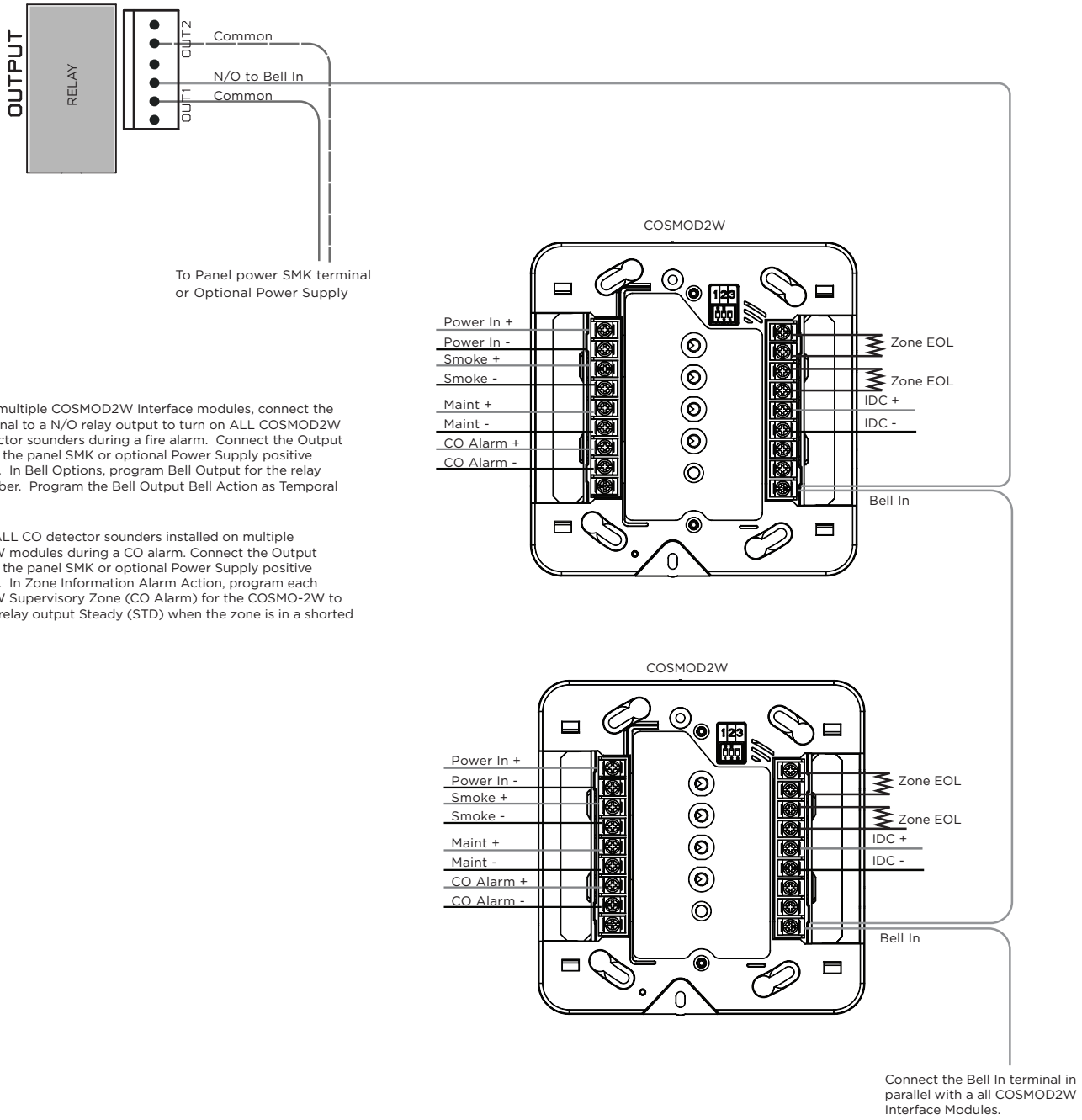




*** Listed for Fire Applications, output limited power, regulated

System Sensor i4 Series Smoke and CO Detectors Using Multiple COSMOD2W Module

See i4 Series Interface Module Installation and Maintenance Instructions for additional information.



If installing multiple COSMOD2W Interface modules, connect the Bell In terminal to a N/O relay output to turn on ALL COSMOD2W smoke detector sounders during a fire alarm. Connect the Output Common to the panel SMK or optional Power Supply positive terminal (+). In Bell Options, program Bell Output for the relay output number. Program the Bell Output Bell Action as Temporal (T).

To turn on ALL CO detector sounders installed on multiple COSMOD2W modules during a CO alarm. Connect the Output Common to the panel SMK or optional Power Supply positive terminal (+). In Zone Information Alarm Action, program each COSMOD2W Supervisory Zone (CO Alarm) for the COSMO-2W to turn on the relay output Steady (STD) when the zone is in a shorted condition.

CONTROL UNITS FOR FIRE-PROTECTIVE SIGNALING SYSTEMS ANSI/UL 864, NFPA 72

SPRINKLER SUPERVISORY

Any zone used for sprinkler supervisory must be programmed with “SPRINKLR XXX” as the zone name. The last three characters in the zone name may be assigned a number to identify the zone.

FIRE PROTECTIVE SIGNALING SYSTEMS USING INTERNET/INTRANET/CELL NETWORKS

A Performance Based Technologies system as defined in UL 864 10th Edition may be configured as NET Primary using a hardwire IP network or CELL Primary using a Model 263LTE Cellular Communicator with or without a backup path. The system may be configured as one of the following:

PATH 1 TYPE NET OR CELL PRIMARY WITH NO BACKUP*

Path 1 Programming	
Comm Type = NET or CELL	Checkin Min = 58
Path Type = Primary	Failtime Min = 60
Test Rpt = No	Sub Code = Yes
Checkin = Yes	Send Comm Trbl = Yes
*Device Setup must have a Fire Device	

PATH 1 TYPE NET PRIMARY AND PATH 2 TYPE CELL BACKUP

Path 1 Programming	Path 2 Programming
Comm Type = NET	Comm Type = CELL
Path Type = Primary	Path Type = Backup
Test Rpt = Yes	Test Rpt = Yes
Test Freq = 1 Dy	Test Freq = 1 Dy
Checkin Min = 238	Checkin Min = 238
Fail Min = 240	Fail Min = 240
Send Comm Trbl = Yes	Send Comm Trbl = Yes
*Device Setup must have a Fire Device	

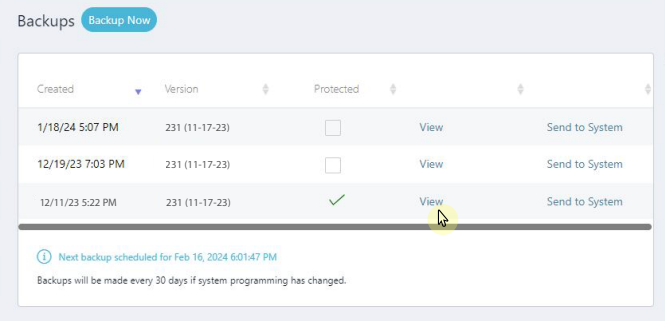
PATH 1 TYPE CELL PRIMARY AND PATH 2 TYPE NET BACKUP

Path 1 Programming	Path 2 Programming
Comm Type = CELL	Comm Type = NET
Path Type = Primary	Path Type = Backup
Test Rpt = Yes	Test Rpt = Yes
Test Freq = 1 Dy	Test Freq = 1 Dy
Checkin Min = 238	Checkin Min = 238
Fail Min = 240	Fail Min = 240
Send Comm Trbl = Yes	Send Comm Trbl = Yes
*Device Setup must have a Fire Device	

SITE SPECIFIC PROGRAMMING

For jurisdictions where a copy of the site specific programming is required to be kept at the protected premises on a USB drive, follow the steps below to export a PDF file of the system backups onto a USB drive.

1. Plug in the USB drive to the computer and navigate to Dealer Admin.
2. Select a customer and the system.
3. On the **System Information** page, navigate to **Backups** on the bottom right side.
4. Select a backup and click **View**.



5. On the **Backup Programming Sheet**, click **Print**.

6. Under **Printer**, select **Save as PDF**. Then, click **Save**.
7. Rename the file and select the USB drive. Then, click **Save**.

CELLULAR COMMUNICATION FAILURE TEST PROCEDURE

For commercial fire systems configured with cell only communication, the following test procedure can be used to demonstrate local annunciation of a communication path failure where required by the AHJ.

1. For system configuration, refer to sections (CELL Primary with No Backup) and Remote Annunciators.
2. Program the appropriate settings for the central station receiver and allow the panel to check in with the receiver.
3. Enter the programming menu and change the receiver port number to an invalid (closed) port.
4. Exit panel programming and allow the panel to return to the default screen.
5. The panel will unsuccessfully attempt to communicate and the keypad will display COMM PATH - TRBL in approximately 200 seconds.
6. After successfully demonstrating local annunciation, return to the programming menu and change the receiver port back to the correct (open) port to verify communication.

REMOTE PROGRAMMING

When a FIRE type device, such as a 7830F Fire Command Keypad or Model 630F Remote Annunciator is programmed, remote programming of the panel requires a lockout code to be entered at any keypad while the Status List is displayed. The panel will not allow remote programming without entering the lockout code.

See LT-2777 XF6 Series Installation and Programming Guide, Set Lockout Code for instructions. After entering the lockout code, remote programming must start within 30 minutes.

CONNECTING DEVICES

Connections for On-board Zones 1-6, LX-Bus and Keypad Bus are provided through Terminals 17-28, PROG, LX500, LX600, LX700, LX800, LX900, and XBUS 4-pin headers. LX-600-LX900 are available for XF6-500 models only.

Several factors determine the DMP LX-Bus™ and keypad bus performance characteristics: the wire length and gauge used, the number of devices connected, and the voltage at each device. When planning an LX-Bus™ and keypad bus installation, keep in mind the following information:

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.
2. On keypad bus 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. To increase the wire length or to add devices, install an additional power supply that is listed for Fire Protective Signaling, power limited, and regulated (12 VDC nominal) with battery backup.
   Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode. Refer to the Keypad Bus section for the specific number of supervised keypads allowed.
3. Maximum distance for any one bus 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. Maximum number of LX-Bus devices on the first 2,500 foot circuit is 40 devices.
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 an auxiliary power supply at the end of the circuit. When voltage is too low, the devices cannot operate properly. Maximum line loss is 8 Ohms.

CROSS ZONING

When using cross zoning, there must be a minimum of two detectors installed in each protected space and the detector installation spacing must be 0.7 times the linear spacing in accordance with National Fire Alarm Code, NFPA 72.

GROUND FAULT

For supervised circuits, ground fault is detected at 0 (zero) Ohms.

PROGRAMMING REQUIREMENTS

SYSTEM PROGRAMMING OPTION REQUIREMENTS

NOTICE TO USERS, INSTALLERS, AUTHORITIES HAVING JURISDICTION, AND OTHER INVOLVED PARTIES
This product incorporates field-programmable software. In order for the product to comply with the requirements of a certificated installation, certain programming features or options must be limited to specific values or not used at all as indicated below.

Program feature or option	Standard	Permitted?	Possible settings	Settings permitted
System Reports, RESTORAL	ANSI/UL 864	Y	NO, YES	YES
System Options, PWR FAIL HRS	ANSI/UL 864	Y	0, 1-15	1-3
System Options, RETARD DELAY for Waterflow Applications	ANSI/UL 864	Y	0, 1-250 minutes	1-90 minutes
System Options, ZONE RETARD DELAY	ANSI/UL 864	N	0, 1-250 minutes	0
System Options, SWINGER BYPASS TRIPS	ANSI/UL 864	N	0, 1-6 times	0
Bell Options, FIRE TYPE	ANSI/UL 864	Y	STEADY, PULSED, TEMPORAL, NONE	PULSED OR TEMPORAL
Zone Information, ZONE TYPE for Zones 1-6	ANSI/UL 864	Y	FI FV SV CO	FI FV SV CO
Zone Information, TRANSMITTER SUPERVISION TIME for Model 1103	ANSI/UL 864	Y	0, 3, 60, 240 minutes	3 minutes
Zone Information, SWINGER BYPASS	ANSI/UL 864	N	NO, YES	NO
Zone Information, ZONE RETARD DELAY	ANSI/UL 864	N	NO, YES	NO
Zone Information, RETARD for Smoke Detectors	ANSI/UL 864	N	NO, YES	NO
SET LOCKOUT CODE for Remote Programming	ANSI/UL 864	Y	00000 (DISABLED); 00001-65535	00001-65535
Communication, CHECKIN MINUTES	ANSI/UL 864	Y	3-240	3-58 (Single Path) 3-238 (Dual Path)
Communication, FAIL TIME	ANSI/UL 864	Y	3-240	3-60 (Single Path) 3-240 (Dual Path)

PANEL PROGRAMMING OPTIONS

Initialization	
INITIALIZE ALL	NO - Leaves existing programming intact. YES - Clears all memory then displays Reset Panel.
INITIALIZE CODES	NO - Leaves existing codes intact. YES - Clears the user code and user profile memory and assigns user code number 99 to the highest user position.
INITIALIZE EVENTS	NO - Leaves existing event memory intact. YES - Clears the events memory.
INITIALIZE ZONES	NO - Leaves existing zone information intact. YES - Clears the zone information for all zones. All zones are marked * UNUSED * and must be renamed before being able to display on any system keypad.
INITIALIZE OUTPUTS	NO - Leaves existing output information intact. YES - Clears all programmed Output names and any output cutoff assignment.
INITIALIZE COMMUNICATION AND REMOTE OPTIONS	NO - Leaves existing communication and remote options intact. YES - Returns communication and remote options to factory defaults.
RESTORE TO FACTORY DEFAULTS	NO - Leaves existing panel programming intact. YES - Sets the panel's programming back to factory default selection. Selecting YES does not clear the panel's event memory, zone, or user code information. It also sets Programming and User Language to English.
Communication	
ACCOUNT NUMBER	The Account Number is a 1- 5 digit number. The range of valid account numbers for a panel is 1 to 65535. Do not enter leading zeros.

COMMUNICATION PATH	Program up to eight paths designated as a primary or backup communication route. Each primary path establishes a new path group. A path group is made up of the primary path and its subsequent backup paths.
COMMUNICATION TYPE	Specify the communication method on this path to report system events. NONE - For local systems. NET - Network communication using the onboard network connection. CELL - 263LTE Cellular Communicators
PATH TYPE	Primary or Backup. Because Path 1 is Primary, this prompt only displays for paths 2-8. Default is Backup.
TEST REPORT	Reports are sent according to the programming. Default is Yes. Select YES to send the test report on the path currently being programmed. Select DEFER to not send a test report. if the panel communicates any message to the receiver within the time set. Select NO to not send test reports on this path.
TEST TIME	Use this option to select the time of day for Test Reports. Select the hour, minute and AM/PM. Enter 0:00 AM to disable this feature.
CHECK IN	This option displays if the COMM TYPE is NET or CELL. For NET the default is YES. For CELL the default is NO. Select YES to enter the number of minutes between check-in reports, from 2-240 for NET or 4-240 for CELL.
FAIL TIME	This option displays if CHECKIN is set to YES. Entering a FAIL TIME allows the receiver to miss multiple check-ins before logging that the panel is missing. The maximum fail time is 240 minutes.
RECEIVER IP	This option displays if the COMM TYPE is NET or CELL. Enter the Receiver IP address where the panel sends network messages.
ADVANCED PROGRAMMING	Select Yes to enter the Advanced Programming menu for the communication path currently being programmed.
FAIL TEST HOURS	This option sets the frequency for a Backup path to send a test report when the closest previous path fails within its path group. Range is 0 to 6 hours.
PROTOCOL	This option displays when COMM TYPE is NET. Select TCP or UDP protocol for communication.
RETRY SECONDS	This option displays when COMM TYPE is NET. Enter 6-15 seconds for the panel to wait before retrying to send a message to the receiver if an acknowledgment was not received. If TCP is enabled, the minimum Retry Time programmed is 6 seconds.
DUPLICATE ALARMS	This prompt displays for BACKUP paths. If Yes is selected, the current backup path duplicates all alarms occurring on its group primary path.
SEND PATH INFORMATION	This prompt displays for each path and if YES, each panel message includes path information such as path number, communication type, and path type.
Network Options	
DHCP	Select YES for the panel to use a dynamic IP address. The panel operates using DHCP and does not use the Local IP Address number. Select NO for the panel to use the IP address entered in Local IP Address.
LOCAL IP ADDRESS	Enter the local IP address.
GATEWAY ADDRESS	Enter the local gateway address to exit your local network.
SUBNET MASK	Enter the local subnet mask assigned to the panel.
DNS SERVER	Enter the IP address of the DNS (Domain Name System) used by the panel to resolve domain names into IP addresses.
Remote Options	
FIRST/SECOND GPRS APN	Enter the first and second APN (Access Point Name) for cellular communication to connect to a DNS network. The APN may contain two lines of 16 characters to equal 32 characters.
ENTRÉ CONNECTION	This option displays only if the panel has network capability. Select NET to allow a dedicated network connection with Entré.
ENTRÉ INCOMING TCP PORT	This option displays only if NET is chosen for the Entré connection. Enter the programming port number for the incoming Entré connection.
ENTRÉ IP ADDRESS	This option displays only if NET is chosen for the Entré connection. Enter the Entré IP address where the panel sends network messages.
ENTRÉ OUTBOUND TCP PORT	This option displays only if NET is chosen for the Entré connection. Enter the programming port number for the outbound Entré connection.
ENTRÉ BACKUP IP ADDRESS	This option displays only if NET is chosen for the Entré connection. Enter the IP backup address where the panel sends network messages if the first Entré IP Address fails.

ENTRÉ BACKUP TCP PORT	This option displays only if NET is chosen for the Entré connection. Enter the backup programming port number for the outbound Entré connection in case the connection to the primary IP fails.
ENTRE ZONE REPORTS	Select YES to send changes in the status of active zones to Entré. The messages include the zone number, name, type, the action (alarm, trouble, bypass, etc.), user number (if applicable), and area name. For a Walk Test, Verify and Fail messages are sent for each zone.
ENTRE USER COMMAND REPORTS	Select YES to send user code change events to Entré.
ENTRE SUPERVISORY REPORTS	Select to send system monitor reports, such as AC and battery, and system event reports to Entré.
ENTRÉ CHECKIN	Select the rate at which check-in messages are sent over the Entré connection. Select 0 (zero) to disable check in messages. Range is 0, 3-240 minutes.
ENTRÉ PASSPHRASE	Enter an 8 to 16-character Passphrase using alphanumeric characters. If you leave the Passphrase blank, the data is not encrypted.
INTEGRATOR CONNECTION	This option displays only if the panel has network capability. Select NET to allow a dedicated network connection with an integrator.
INTEGRATOR INCOMING TCP PORT	This option displays only if NET is chosen for the integrator connection. Enter the programming port number for the incoming integrator connection.
INTEGRATOR IP ADDRESS	This option displays only if NET is chosen for the integrator connection. Enter the Integrator IP address where the panel sends network messages.
INTEGRATOR OUTBOUND TCP PORT	This option displays only if NET is chosen for the integrator connection. Enter the programming port number for the outbound integrator connection.
INTEGRATOR BACKUP IP ADDRESS	This option displays only if NET is chosen for the integrator connection. Enter the IP backup address where the panel sends network messages if the first integrator IP Address fails.
INTEGRATOR INCOMING TCP PORT	This option displays only if NET is chosen for the integrator connection. Enter the backup programming port number for the outbound integrator connection in case the connection to the primary IP fails.
INTEGRATOR IP ADDRESS	This option displays only if NET is chosen for the integrator connection. Enter the integrator IP address where the panel sends network messages.
INTEGRATOR OUTBOUND TCP PORT	This option displays only if NET is chosen for the integrator connection. Enter the programming port number for the outbound integrator connection.
INTEGRATOR BACKUP IP ADDRESS	This option displays only if NET is chosen for the integrator connection. Enter the IP backup address where the panel sends network messages if the first integrator IP Address fails.
INTEGRATOR BACKUP TCP PORT	This option displays only if NET is chosen for the integrator connection. Enter the backup programming port number for the outbound integrator connection in case the connection to the primary IP fails.
INTEGRATOR ZONE REPORTS	Select YES to send changes in the status of active zones to the integrator. The messages include the zone number, name, type, the action (alarm, trouble, bypass, etc.), user number (if applicable), and area name. For a Walk Test, Verify and Fail messages are sent for each zone.
INTEGRATOR USER COMMAND REPORTS	Select YES to send user code change events to the integrator.
INTEGRATOR SUPERVISORY REPORTS	Select to send system monitor reports, such as AC and battery, and system event reports to the integrator.
INTEGRATOR PASSPHRASE	Enter an 8 to 16-character Passphrase using alphanumeric characters. If you leave the Passphrase blank, the data is not encrypted.
APP KEY	Enter the 8-digit App Key obtained in your Dealer Settings tab at vk.securecomwireless.com. This option is a security feature of the Virtual Keypad iPhone/Android App used only when your Dealer Settings at vk.securecomwireless.com have “EasyConnect” set as the Connection Type.
Device Setup	
DEVICE NUMBER	Enter an address of 1-8 (for XF6-100) or 1-16 (for XF6-500) for the device being programming.
DEVICE NAME	A device name must be given to each device in the system. Press CMD to accept the default name or enter a new name up to 32 alphanumeric characters.
DEVICE TYPE	Allow selection of the device type.
System Options	
CROSS ZONE TIME	Enter the time allowed (4-250 seconds) between zone faults. When zones are cross zoned, the same zone or a second cross zoned zone must fault within this time in order for an alarm report for both zones to be sent to the receiver. If the cross zone time expires without the second zone faulting, only a zone fault from the first zone is reported.

ZONE RETARD DELAY	Enter the retard time (1-250 seconds) assigned to Fire, Fire Verify, Supervisory, or Carbon Monoxide (CO) type zones. The retard delay only functions when the zone is shorted. The zone must remain shorted for the entire length of the Retard Delay before being recognized by the panel.
POWER FAIL DELAY	This option tracks the duration of an AC power failure. When the AC power is off for the length of the programmed delay time, an AC power failure report is sent to the receiver. The delay time can be from 1 to 15 hours. For UL fire installations, Power Fail Delay shall be programmed as required by the service of the panel.
SWINGER BYPASS TRIPS	Enter the number of times (1-6) a zone can go into an alarm or trouble condition within one hour before being automatically bypassed. Bypassed zones are automatically reset when the area they are assigned to is disarmed.
TIME ZONE CHANGES	This function allows the panel to request automatic time changes from the DMP SCS-1R Receiver on Path 1. For the receiver to send time changes, it must be programmed to send time changes and must be receiving time change updates from the network automation computer at least every 24 hours. When time zone is programmed YES, enter the number (0-23) that indicates the difference between the Greenwich Time zone (GMT) and where the panel is located.
LATCH SUPERVISORY ZONES	Selecting YES latches supervisory zone alarms on the keypad display until the sensor reset operation is performed. Selecting NO automatically clears the alarm from the keypad display when the supervisory zone restores to a normal condition.
PROGRAMMING MENU LANGUAGE	Select to change the primary programming language. ENG = English (ENGLISH) SPN = Spanish (ESPANOL) FRN = French (FRANCAIS)
USER MENU AND STATUS LIST LANGUAGE	Select the primary user language. ENG = English (ENGLISH) SPN = Spanish (ESPANOL) FRN = French (FRANCAIS) Selecting a secondary user language allows the user to view the User Menu and Status List text in English, Spanish, or French. If SEC LANG: is set to NONE, the option to choose a language does not display.
HOUSE CODE	When using DMP wireless, enter a house code between 1 and 50.
DETECT WIRELESS JAMMING	This option displays when the House Code entered is for a DMP 1100 Series Wireless system (1-50). Select YES to enable jamming messages to display in the Status List. Select NO to disable jamming messages.
1100 ENCRYPTION	Allows programmer to select if 1100 series wireless use only encrypted transmitters, only unencrypted transmitters, or allows both encrypted and unencrypted transmitters.
1100 PASSPHRASE	8 character passphrase for use with 1100 series wireless encryption. Only shown if 1100 Encryption is set to “ALL” or “BOTH. Only allows Hex characters (0-9, A-F) to be entered.”
TROUBLE AUDIBLE	This option displays when the House Code entered is for a DMP 1100 Series Wireless system (1-50). Select the keypad buzzer annunciation method for wireless low battery and missing messages. Select ANY to enable annunciation anytime. Select DAY to enable annunciation except during sleeping hours (9 PM to 9 AM). Select MIN (minimum) to annunciate only Fire and Fire Verify zones during daytime hours (9 AM to 9 PM).
Bell Options	
BELL CUTOFF TIME	Enter the maximum time from 3 to 99 minutes the Bell Output remains on. Enter 0 (zero) to provide continuous bell output. The default is 15 minutes.
NAC 1 SYNC PROTOCOL	If NAC 1 is programmed to use DMP, it will follow the BELL ACTIONS that have been programmed. Otherwise, it will perform the sync protocol selected for Fire only.
NAC 2 SYNC PROTOCOL	If NAC 2 is programmed to use DMP, it will follow the BELL ACTIONS that have been programmed. Otherwise, it will perform the sync protocol selected for Fire only.
SELECTIVE SILENCE	This prompt will only display when either NAC 1 or NAC 2 is programmed to something other than DMP. Selective Silence allows the bell and strobe function of the field device to be turned off separately.
BELL OUTPUT	Enter the output number when needed to follow the panel Bell Output operation for all action and off conditions. Enter 0 (zero) to disable. When BELL ACTION is set to T for Temporal Code 3, the Bell Output action for an LX-Bus output is pulse.

BELL ACTION	This section defines the type of Bell Action for zone alarms. S for a Steady Bell Output P for a Pulsed output T for a Temporal Code 3 output N for no Bell Output. 4 for Carbon Monoxide (CO) output. Trouble conditions do not activate the Bell Output. Fire Bell Action Fire Type zones default is T. Supervisory Bell Action for Supervisory Type zone default is N.
Output Options	
CUTOFF OUTPUT	Outputs 1 to 6 can be entered here to turn off after a time specified in CUTOFF TIME. To disable this option, clear the display then press CMD.
OUTPUT CUTOFF TIME	If a Cutoff Output (1-6) is assigned, enter a Cutoff Time of 1 to 99 minutes for the output to remain on. Enter 0 (zero) for continuous output.
COMMUNICATION FAIL OUTPUT	Enter the output number to turn on when communication fails after one minute.
FIRE ALARM OUTPUT	Enter the output number to turn on when a fire type zone is placed in alarm. The output is turned off using the Sensor Reset option while no additional fire type zones are in alarm.
FIRE TROUBLE OUTPUT	Enter the output number to turn on when a fire type zone is placed in trouble, when a supervisory type zone is placed in trouble, or when any system monitor (AC, Battery) is placed in trouble. The output turns off when all fire and supervisory type zones, or system monitors are restored to normal.
DEVICE FAIL OUTPUT	Enter the output number to turn on when an addressed device fails to respond to polling from the panel. A Missing Device report is sent to the receiver. The output is turned off when the device responds to polling or is removed from programming in the system.
SENSOR RESET OUTPUT	Enter the output number to turn on when a Sensor Reset is performed at a keypad. The output turns off automatically 5 seconds later. This function can be used to reset smoke detectors that are operated by an external power supply through a Model 716 Output Expander Module.
SUPERVISORY ALARM OUTPUT	Enter the output number to turn on when a supervisory zone type is placed into an alarm. The output turns off when all supervisory type zones are restored to normal.
AC FAIL OUTPUT	This output turns on when the panel detects no AC. The output turns off when AC power is detected.
CARBON MONOXIDE ALARM OUTPUT	Turn on this output when a Carbon Monoxide (CO) type zone is in alarm. The output is turned off using Sensor Reset option while no additional CO type zones are in alarm.
Output Information	
OUTPUT NUMBER	Enter an output number. Entry range is 1 to 6 and 500-999.
OUTPUT NAME	Enter up to a 32-character alphanumeric name for any output numbers.
OUTPUT REAL-TIME STATUS	Selecting YES allows Real-Time Status reports of a hardwire device, such as Output ON, OFF, PULSE, or TEMPORAL to be sent. Selecting NO disables Real-Time Status for this output device.
Output Groups	
OUTPUT GROUPS	This function allows you to assign outputs to groups. Output groups can be assigned to other areas of programming such as Output Options or Alarm Action of Zone Information.
GROUP NUMBER	Enter a group number from 1 to 20. Up to 20 different groups may be assigned.
GROUP NAME	Enter up to 32 characters for the group name.
OUTPUT NUMBER	Enter the Output number. Entry range is 1 to 6, 500 to 999 (outputs), and G1 to G20 (groups). The maximum number that can be assigned to a specific group is eight.
Zone Information	
ZONE NUMBER	Enter the number of the zone you intend to program.
ZONE NAME	Zone names can have up to 32 alphanumeric characters. A name must be given to each zone in the system.
ZONE TYPE	When you assign a Zone Type to a zone, automatic zone responses are made. There are 4 Zone Types to choose from: Fire, Fire Verify, Supervisory, or Carbon Monoxide (CO).

FIRE BELL OUTPUT	This output is turned on any time a Fire, Fire Verify, or Supervisory zone is placed in alarm. The output is turned off by any the following actions: • When the User Menu Alarm Silence function is performed. • When a valid user code is entered to silence the bell. • When the Silence key is pressed on the 7830F Fire Command Keypad or Model 630F Remote Annunciator. • Using the Outputs On/Off function in the User Menu. • The expiration of the Bell Cutoff time.
NEXT ZONE	Select YES to terminate zone programming. The display returns to Zone Number, allowing you to enter a new zone number. Select NO to make alterations to the Alarm Action for a zone. To program zones for wireless operation, select NO at the NEXT ZONE.
DMP WIRELESS	For a DMP 1100X Series Wireless Receiver set the House Code from 1 to 50 in System Options. Zones 500 through 999 can be programmed as Wireless zones.
WIRELESS	Select YES to program this zone as a DMP wireless zone.
ALARM ACTION	This option allows you to change any Zone Type standard definitions. When the Zone Type is specified, the Alarm Action for that zone is stored in memory. If the Zone Type is Fire or Supervisory it is a 24-hour zone and the Alarm Action programming begins with Armed Open. The Fire Verify Zone Type functions the same as Fire Type, with the following exceptions: When a Fire Verify zone initiates an alarm, the panel performs a Sensor Reset. If any Fire Verify zone initiates an alarm within 120 seconds after the reset, an alarm is indicated. If an alarm is initiated after 120 seconds, the cycle is repeated and a zone fault report is sent to the receiver. Do NOT program Fire Verify Zone Types for Zone Retard.
OUTPUT NUMBER	Specify any of the Relay Outputs on the panel to be activated by a zone condition (1 to 6, 500 to 999 if Model 716 used, G1-G20).
OUTPUT ACTION	Assign an output action to the relay: Steady, Pulse, Momentary, or Follow. Some wireless devices whether powered using an AC adaptor or a battery, ignore some output action programming. STEADY - The output is turned on and remains on until the area is disarmed, an output cutoff time expires, or the output is reset from the keypad menu. PULSE - The output alternates one second on and one second off. The pulsing rate for a Model 716 relay attached to the LX-Bus is 1.6 seconds. MOMENTARY - The output is turned on only once for one second. FOLLOW - The output is turned on and remains on while the zone is in an off normal, or bad condition. When the zone restores, the output is turned off.
SWINGER BYPASS	Selecting YES allows the zone to be swinger bypassed by the panel according to the specifications programmed in Swinger Bypass Trips and Reset Swinger Bypass. The Bypass condition displays in the keypad Status List. Selecting NO disables swinger bypassing for this zone.
ZONE RETARD DELAY	When you select YES, the zone operates with the zone retard delay. The retard functions only in zone short conditions. The zone must remain shorted for the full length of the retard delay before the panel recognizes its condition. If you select NO, the zone operates without a retard delay.
PRESIGNAL KEYPAD ADDRESSES	Enable any combination of keypad addresses to sound a presignal tone during the time a zone is in retard delay. The presignal tone silences when the zone restores or the retard delay expires.
FAST RESPONSE	Select YES to provide a zone response time of 167ms. Select NO to provide a normal zone response time of 500ms. Zones 500 to 999 have a fixed response time and do not display this prompt.
FIRE PANEL SLAVE INPUT	This option is available on Fire Zones (FI) only and allows a fire zone the ability to provide slave communication operation for a separate fire alarm control panel. If YES, this zone will transmit a restoral immediately when restored by the fire panel being monitored. A sensor reset is not required to generate the restoral message. If NO, this zone will operate as a standard fire type zone and a sensor reset is required before the zone will return to normal. Default is NO.

TESTING/MAINTENANCE

SYSTEM MAINTENANCE

To ensure continuous satisfactory operation of any alarm system, proper installation and regular maintenance by the installing alarm company and frequent testing by the end user is essential. Offering a maintenance program and acquainting the user with the correct procedures for system use and testing is also the responsibility of the installing alarm company.

WIRELESS TESTING

When using the 1100X or 1100XH Wireless Receiver for Fire Protective Signaling, after all transmitters are in position, the WLS option of the panel's Walk Test must be operated and all transmitters programmed for Fire (FI) or Supervisory (SV) must show that their checkin message was received.

BATTERY REPLACEMENT PERIOD

DMP recommends replacing the battery every 3 to 5 years under normal use.

COMPATIBILITY

COMPATIBLE 2-WIRE SMOKE DETECTORS

24 VDC panel terminals 17 through 28 provides resettable Class B, 2-wire powered zones. For programming purposes the zone numbers are 1-6.

The maximum wire length is 3000 feet using 18 AWG or 1000 feet using 22 AWG. The maximum voltage is 13.8 VDC and the maximum normal standby current is 1.25mA DC. The maximum line impedance for zones 1-6 is 50 Ohms. The maximum short circuit current is 56mA. When using zone expansion modules, use Model 309 3.3k EOL resistors. The compatibility identifier for the zones is A.

Do not mix detectors from different manufacturers on the same zone.

The panel views these zones as "Open" while the power is absent.

Manufacturer	Model	Detector ID	Base	Base ID	DC Voltage Range	# of Detectors (12V/24V)	Zone Expansion Modules	Panel Zones
System Sensor	2W-B, 2WT-B	A	N/A	N/A	8.5-35	20	715, 715-8, 715-16	1-6
System Sensor	2WTA-B	A	N/A	N/A	8.5-35	20	715, 715-8, 715-16	1-6
System Sensor	2WTR-B	A	(*)	N/A	8.5-35	1	715, 715-8, 715-16	1-6
System Sensor	COSMO-2W (using COSMOD2W)	A	N/A	N/A	8.5-35	12	714, 714-8, 714-16, 715, 715-8, 715-16	1-6
Hochiki	SOC-24VN	HD-3	NS-4, NS-6	HB-55	8-35	20	715, 715-8, 715-16	1-6
Hochiki	SOE-24V	HD-3	NS-4	HB-55	8-35	20	715, 715-8, 715-16	1-6
Hochiki	SOC-24V	HD-3	NS-4, NS-6	HB-55	8-35	20	715, 715-8, 715-16	1-6

(*) = Must be used in conjunction with System Sensor Polarity Reversal Module model RRS-M0D.

NOTIFICATION APPLIANCES

The following table indicates the approved notification appliances that can be used with the XF6 Series system.

Wheelock Model No.	Description	Max No. of Appliances per NAC Circuit
ELST	Round ceiling mounted fire alerting strobe, 15/75 candela	33
ELHS	Horn strobe, selectable	33
ELHN	Horn	89
System Sensor Model No.	**Description**	**Max No. of Appliances per NAC Circuit**
SRL	Wall mounted indoor selectable output strobe, 15/75 candela	40
P2RL	Indoor selectable output horn strobe	25
HRL	Horn	56
Gentex Model No.	**Description**	**Max No. of Appliances per NAC Circuit**
GES3-24	Strobe, 15/75 candela	56
GEC3-24	Horn strobe, 15/75 candela	35
GEH24	Horn	89

ACCESSORY DEVICES

Cellular Communicator Modules	
263LTE Cellular Communicator	Allows you to connect the panel to the Verizon or AT&T.
Expansion Modules	
710 Bus Splitter/Repeater	Allows you to increase keypad or LX-Bus™ wiring distance to 2500 feet.
711/711S Single Point Zone Expanders	Provides one Class B zone for connecting devices.
714, 714-8, 714-16 Zone Expanders	Provides Class B zones for connecting non-powered fire devices.
715, 715-8, 715-16 Zone Expanders	Provides 12 VDC Class B powered zones for connecting smoke detectors, glassbreak detectors, and other 2- or 4-wire devices.
716 Output Expander	Provides four Form C relays (SPDT) and four switched grounds (open collector) for use in a variety of remote annunciation and control applications for use on the LX-Bus only.
DMP Two-Way Wireless Devices	
1100X/1100XH Receiver	Supports up to 500 devices in residential or commercial wireless operation.
1100R Repeater	Provides additional range for wireless devices.
1103 Universal Transmitter	Provides both and internal and external contacts that may be used at the same time to yield two individual reporting zones from one wireless transmitter. Requires EOL resistor for external contact.
1164/1164NS Wireless Commercial Smoke	Battery powered, wireless, low profile, photoelectric smoke detector. The 1164 also offers a synchronized sounder.
1166 Wireless Smoke Ring	Installed with any traditional AC-powered interconnected smoke detector system and provides an audible alert in the event of a fire.
1168 Wireless Smoke/CO/Low Temp Detector	Features multi-criteria smoke sensing using a combination of photoelectric heat, IR flame flicker, carbon monoxide (CO) indicators, and a low temp sensor
1183-135F Heat Detector	Fixed temperature heat detector.
1183-135R Heat Detector	Fixed temperature and rate-of-rise heat detector.
1184 Carbon Monoxide Detector	Carbon monoxide detector.
Indicating and Initiating Devices	
860 Relay Module	Provides dry relay contacts that are programmable and controlled from DMP panel annunciator outputs. This module includes one Form C (SPDT) relay rated for 1 Amp @ 30 VDC. Sockets are provided to allow the addition of three Model 305 plug-in relays. These relays can be used for electrical isolation between the alarm panel and another system or switching 5, 12, or 24 Volts to control various functions within a building or around its perimeter. Installs inside the panel enclosure.
865 Supervised Class A or B Notification Circuit Module	Provides supervised alarm current when using the XF6 Series panel bell output and up to 5 Amps at 12 or 24 VDC when using a listed auxiliary power supply. The 865 can supervise 2-wire or 4-wire style circuits for opens and shorts with individual LED annunciation.
866 Class B Notification Circuit Module	Provides supervised alarm current using the XF6 Series panel bell output and up to 5 Amps at 12 or 24 VDC when using a listed auxiliary power supply. The 866 can supervise 2-wire Class B circuits for opens and shorts.
867 Class B LX-Bus Notification Circuit Module	Provides supervised alarm current using the XF6 Series panel bell output and up to 5 Amps at 12 or 24 VDC when using a listed auxiliary power supply. The 867 connects to the XF6 Series panel LX-Bus™ and provides one 2-wire Class B notification circuit for open and short conditions. Individual Bell Relay addresses Bell Ring styles.
Keypads	
LCD keypads	Allows you to control the panel from various remote locations. Connect up to sixteen Model 630F Remote Fire Command, Model 7830F Fire Command keypad to the keypad bus.
Addressable Smoke Detectors	
2W-BLX, 2WT-BLX	Single-zone, addressable conventional smoke, smoke/heat detectors that connect to the LX-Bus. Includes drift compensation.

SYSTEM CONFIGURATIONS

MINIMUM SYSTEM CONFIGURATION FOR COMMERCIAL FIRE APPLICATIONS

The following is the minimum configuration to meet UL requirements:

Y - Yes N - No O – Optional

Model No.	Description	Local	Proprietary (PPU)	Central Station (PPU)
XF6-100 XF6-500	Main Board (-)	Y	Y	Y
263LTE	Cellular Communicator	O	O	O
2W-BLX, 2WT-BLX	2-Wire Smoke	O	O	O
714, 715, 711, 711S, 714-8, 714-16, 715-8, 715-16	Zone Expander	O	O	O
716	Output Expander	O	O	O
7830F, 630F (-)	Supervised LCD Keypads	Y	Y	Y
865, 866, 867	Indicating (Notification) Modules	O	O	O
860	Relay Module	O	O	O
1100X	Wireless Receiver	O	O	O
1100XH	Wireless Receiver	O	O	O
1100R	Wireless Receiver	O	O	O
1103	Wireless Transmitter	O	O	O
1164	Wireless Commercial Smoke	O	O	O
1168	Wireless Smoke/CO/Low Temp	O	O	O
1183-135F/1183/135R	Wireless Heat Detector	O	O	O
1184	Wireless CO	N	O	O

(-) - At least one model required

SYSTEM POWER/SIZE

TRANSFORMER FOR FIRE INSTALLATIONS

Commercial Fire

The total current combined from Terminals 7-28 XBUS and LX500-LX900 cannot exceed: 3.5 Amps. NAC Circuit maximum of 2.5 A, Auxiliary power maximum of 0.75 A.

STANDBY BATTERIES

Use battery Models 365 (12 VDC 9 Ah), 366 (12 VDC 18 Ah), 368 (12 VDC 5.0 Ah), and 369 (12 VDC 7 Ah) with the XF6 panel.

POWER REQUIREMENTS

During AC power failure, the XF6 Series panel and all connected auxiliary devices draw their power from the battery. All devices must be taken into consideration when calculating the battery standby capacity. The table on the following page lists the XF6 Series panel power requirements. You must add the additional current draw of keypads, zone expansion modules, smoke detector output, and any other auxiliary devices used in the system for the total current required. The total is then multiplied by the number of standby hours required to calculate the total ampere-hours required.

Standby Battery Power Calculations	Standby Current				Alarm Current			
XF6 Series Fire Control Panel	Qty 1	x	90 mA	_____mA	Qty 1	x	102 mA	_____mA
Fire Command Keypad	Qty _____	x	84 mA	_____	Qty _____	x	108 mA	_____
Relay Outputs (ON)	Qty _____	x	3 mA	_____	Qty _____	x	3 mA	_____
Switch Grounds (ON)	Qty _____	x	7 mA	_____	Qty _____	x	61 mA*	_____
Active Zones	Qty _____	x	7 mA	_____	Qty _____	x	7 mA	_____
NAC Zones	Qty _____	x	___mA	_____	Qty _____	x	_____mA	_____
2-Wire Smoke Detectors	Qty _____	x	___mA	_____	Qty _____	x	_____mA	_____
263LTE Cellular Communicator	Qty _____	x	12 mA	_____	Qty _____	x	12 mA	_____
1100X Wireless Receiver	Qty _____	x	15 mA	_____	Qty _____	x	21 mA	_____
1100XH Wireless High Power Receiver	Qty _____	x	45 mA	_____	Qty _____	x	61 mA	_____
7830F Fire Command Keypad	Qty _____	x	84 mA	_____	Qty _____		108 mA	_____
630F Remote Fire Command Center	Qty _____	x	38 mA	_____	Qty _____		55 mA	_____
7070/7170 Thinline/7070A Aqualite Keypad	Qty _____	x	43 mA	_____	Qty _____		52 mA	_____
Active Zones (EOL Installed)			1 mA	_____			1 mA*	_____
7073/7173 Thinline/7073A Aqualite Keypad	Qty _____	x	51 mA	_____	Qty _____	x	60 mA	_____
Active Zones (EOL Installed)			1 mA	_____			1 mA*	_____
710 Bus Splitter/Repeater Module	Qty _____	x	19 mA	_____	Qty _____	x	19 mA	_____
711/711S Zone Expansion Module	Qty _____	x	7 mA	_____	Qty _____	x	7 mA	_____
Active Zone (EOL Installed)	Qty _____		1 mA	_____	Qty _____	x	1 mA*	_____
714 Zone Expansion Module	Qty _____	x	4 mA	_____	Qty _____	x	4 mA	_____
Active Zones (EOL Installed)	Qty _____		1 mA	_____	Qty _____	x	2 mA*	_____
714-8, 714-16 Zone Expansion Module	Qty _____	x	12 mA	_____	Qty _____	x	12 mA	_____
Active Zones (EOL Installed)	Qty _____	x	1 mA		Qty _____	x	1 mA*	_____
715 Zone Expansion Module	Qty _____	x	4 mA	_____	Qty _____	x	4 mA	_____
Active Zones (EOL Installed)	Qty _____	x	2 mA	_____	Qty _____	x	34 mA*	_____
2-Wire Smokes	Qty _____	x	.1 mA		Qty _____	x	18 mA	_____
715-8, 715-16 Zone Expansion Modules	Qty _____	x	12 mA	_____	Qty _____	x	12 mA	_____
Active Zones (EOL Installed)	Qty _____	x	2 mA	_____	Qty _____	x	34 mA*	_____
2-Wire Smokes	Qty _____	x	.1 mA		Qty _____	x	18 mA	_____
716 Output Expansion Module	Qty _____	x	4 mA	_____	Qty _____	x	4 mA	_____
Active Form C Relays					Qty _____	x	17 mA	_____
860 Relay Output Module (one relay active)	Qty _____	x	20 mA	_____	Qty _____	x	20 mA	_____
All four relays active	Qty _____	x	83 mA	_____	Qty _____	x	83 mA	_____
865 Class A or B Notification Module	Qty _____	x	16 mA	_____	Qty _____	x	51 mA	_____
866 Class B Notification Module	Qty _____	x	27 mA	_____	Qty _____	x	46 mA	_____
867 LX-Bus Class B Notification Module	Qty _____	x	18 mA	_____	Qty _____	x	52 mA	_____
2W-BLX, 2WT-BLX Smoke Detectors	Qty _____	x	9 mA	_____	Qty _____	x	21 mA*	_____
COSMOD2W Module	Qty _____	x	27 mA	_____	Qty _____	x	104 mA*#	_____
COSMO-2W Smoke and CO Detectors	Qty _____	x	.6 mA	_____	Qty _____	x	30 mA*#	_____
572 Indicator LED	Qty _____	x	12 mA	_____	Qty _____	x	12 mA	_____
Aux. Powered Devices on Terminals 7 and 11 Other than Keypads and LX-Bus Modules				_____mA				_____mA

Sub-Totals	Sub-Total Standby _____ mA	Sub-Total Alarm _____mA
*Based on 10% of active zones in alarm	Total Standby _____ mA	Total Alarm _____mA

For systems that are not Central Station monitored, multiply alarm current by 12.

Total Standby _____ mA x number of Standby Hours needed _____= _____ mA-hours
Total Alarm _____ mA x number of Alarm Hours needed _____ = _____ mA-hours
UL 864 requires 5 minutes (.0833 hours) in Alarm Total _____ mA-hours
Add 20% for battery derating = _____ Amp-hrs Required

Standby Battery Selection

To choose the type and number of batteries needed for 24 hours of standby power based on the Amp Hours Required calculation, perform the following:

1. Select the desired standby hours required from the table below: 24 hours.
2. Select the desired battery size: Model 368 (12 VDC 5.0 Ah), Model 369 (12 VDC 7 Ah), Model 365 (12 VDC 9 Ah), Model 366 (12 VDC 18 Ah).
3. Select a Max. Ah Available number that is just greater than the number calculated in Amp Hours Required.
4. Install the number of batteries shown in the corresponding No. of Batteries required column.

For listed installations, batteries can be installed in a DMP Model 349, 350 or 352S enclosure and all wiring shall run through conduit. The enclosure shall be installed to the left of the XF6 Series enclosure to ensure Battery and Auxiliary wire separation.

24 HOURS OF STANDBY POWER

5.0 Ah Batteries		7 Ah Batteries		7.7 Ah Batteries		9 Ah Batteries		18 Ah Batteries	
Max. Ah Available	No. of Battery Pairs	Max. Ah Available	No. of Battery Pairs	Max. Ah Available	No. of Battery Pairs	Max. Ah Available	No. of Battery Pairs	Max. Ah Available	No. of Battery Pairs
8	2	5	1	6	1	7	1	14	1
12	3	11	2	12	2	14	2	28	2
16	4	16	3	18	3	21	3	40	3**
20	5	22	4	24	4	28	4		
24	6	28	5	30	5	36	5		
28	7	33	6	36	6				
32	8	39	7						
36	9								
40	10								

48 hours is the typical battery recharge time for any of the Number of Batteries shown in this section.
** Two 18 Ah batteries with two 7 Ah batteries.

If the Amp Hours Required calculation is greater than any Max. Ah Available number shown on a table, then add power supply(s) to power some system devices allowing the Amp Hours Required calculation to be reduced. See the 710 Bus Splitter/Repeater Installation Guide (LT-0310).

ZONE TYPE DESCRIPTIONS

This section describes applications for the default Keypad and LX-Bus zone types in Zone Information programming.

FI (Fire zone)

Used for any type of powered or mechanical fire detection device. Typical applications are for smoke detectors, sprinkler flowswitches, manual pull stations, and beam detectors. Retard and cross zoning are available for the Fire zone type.

FV (Fire Verify zone)

Used for smoke detector circuits to verify the existence of an actual fire condition. When a Fire Verify zone initiates an alarm, the panel performs a Fire Reset. If any Fire Verify zone initiates an alarm within 120 seconds after the initial alarm, an alarm is indicated. If an alarm is initiated after 120 seconds, the cycle repeats.

SV (Supervisory zone)

Used to provide 24-hour zone supervision to devices associated with fire systems. Typical applications are tamper switches on Post Indicator Valves (PIVs), gate valves, and low and high temperature gauges.

CO (Carbon Monoxide)

This output turns on any time a Carbon Monoxide Zone (CO) is placed in alarm. The output is turned off using Sensor Reset option while no additional CO type zones are in alarm.

Note: If a Carbon Monoxide (CO) zone is programmed, the system must be monitored by a supervising station with emergency response.

Certifications

California State Fire Marshal (CSFM)
Los Angeles Fire Department (LAFD)
New York City (FDNY COA #6167)

Underwriters Laboratory (UL) Listed

ANSI/UL 864 Fire Protective Signaling Systems

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2500 North Partnership Boulevard
Springfield, Missouri 65803-8877
888.436.7832 | DMP.com