Model XR500/XR500N Wiring Diagram

Refer to XR500/XR500N Installation Guide (LT-0681) for a complete description of wiring connections.
Refer to XR500/XR500N Programming Guide (LT-0679) for complete programming instructions.

TYPES OF SERVICE

Central Station DACT service may be provided. See sections 29.4.

Suitable for Remote Station PPU DACT Service. See sections 29.7. Suitable for manual fire alarm, automatic fire alarm, sprinkler supervisory, or water flow alarm.

Suitable for Grade AA High Line Encrypted Central Station with NET communication. See section 23.8.

Grade B may be provided with dialer communication and DMP 350A Enclosure. See section 23.6.

Suitable for Bank Safe and Vault Service with 350A Enclosure. See section 26.6. Suitable for Household Fire and Grade A Household Burglary.

Suitable for Grade A Local, Police Station Connect, Mercantile, and Proprietary with dialer direct communication and 350A Enclosure. See sections 23.3, 23.5, and 23.6.

Suitable for Proprietary, PPU, other technologies, (iCOM – XR500 only), local.

NFPA 72

This equipment should be installed in accordance with Chapter 11 of the National Fire Alarm Code, ANSI/NFPA 72-2002, (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269). Printed information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment.

POWER LIMITED

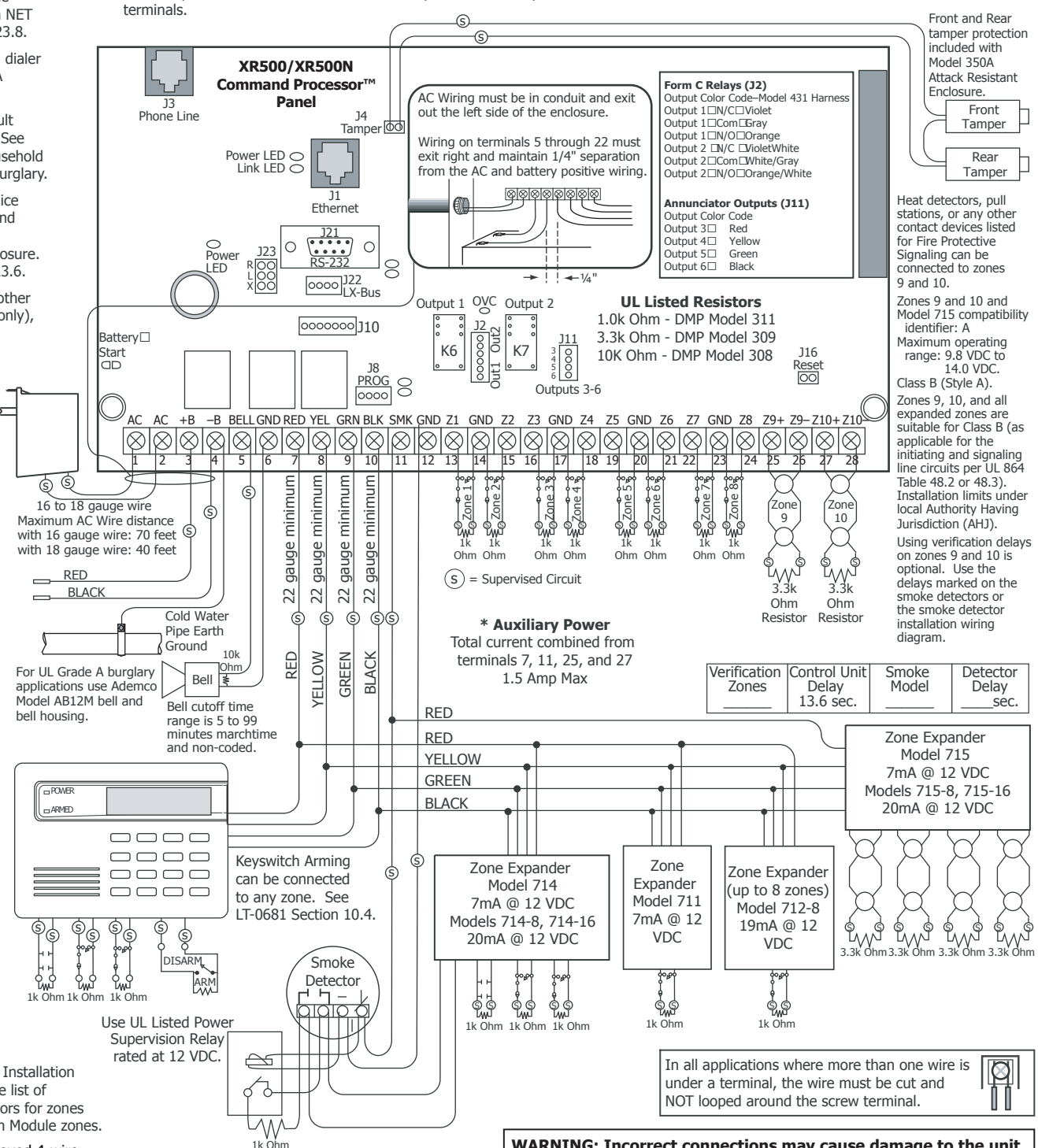
All circuits on the Model XR500/XR500N comply with the requirements for inherent power limitation and are Class 2 except the red battery wire and AC terminals.

NFPA 72 OPERATING INSTRUCTIONS

The operating instructions found on LT-0352 1/04 must be located adjacent to the control unit or keypad.

HOUSEHOLD FIRE WARNING

UL recognized limited energy cable must be used for connection of all initiating, indicating, and supplementary devices.



DMP Transformers

Model 327
16.5 VAC 50 VA
Class 2 Plug-in.

Model 322
16 VAC 56 VA
Class 2 Wire-in.

Secondary Power Supply

1.0 Amps Max. charging current. Use only 12 VDC rechargeable batteries. DMP Models 365, 366, 367, 368, or 369. Replace batteries every 3 to 5 years.

* Bell

12 VDC nominal
Minimum cutoff time is 5 minutes.
1.5 Amp Max

Keypads

Model 690
72mA at 8 to 14.5 VDC.

Models 790 and 791
75mA at 8 to 14.5 VDC.

Model 793
108mA at 8 to 14.5 VDC.

Model 630F
60mA at 8 to 14.5 VDC.

See section 11.2 in the XR500 Installation Guide (LT-0681) for a complete list of approved 2-wire smoke detectors for zones 9, 10, and 715 Zone Expansion Module zones.

See LT-0164 for a list of approved 4-wire smoke detectors and power supervision relays.

*** For UL installations, total current combined from Auxiliary (terminals 7, 11, 25, and 27) and Bell Power (terminal 5) cannnot exceed:**
1.3 Amp with 50 VA transformer, 1.0 Amp Max for Auxiliary Power
1.9 Amp with 56 VA transformer, 1.0 Amp Max for Auxiliary Power and 1.5 Amp Max for Bell

WARNING: Incorrect connections may cause damage to the unit.

WARNING

THIS UNIT MAY BE PROGRAMMED TO USE AN ALARM VERIFICATION FEATURE THAT RESULTS IN DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTOR SHALL BE CONNECTED TO THESE CIRCUITS UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).

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