

Description

The 481 Expansion Interface Card allows you to expand the XR200 panel by up to 100 additional hardwire zones. The 481 provides one 4-wire LX-Bus™ connection that supports combinations of the 711, 714, and 715 Zone Expanders, 716 Output Expanders, and 717 Graphic Annunciator Modules.

You can also connect the single point 5845LX ShatterPro Glassbreak Detector, 6155LX SharpShooter PIR, and DS775LX PIR to the LX-Bus.

The XR200 panel can support up to 200 zones of protection on the LX-Bus when using the 460 Interface Adaptor Card and two 481 Expansion Interface Cards. The 481 can also be used with the 462 and 472 expansion cards.

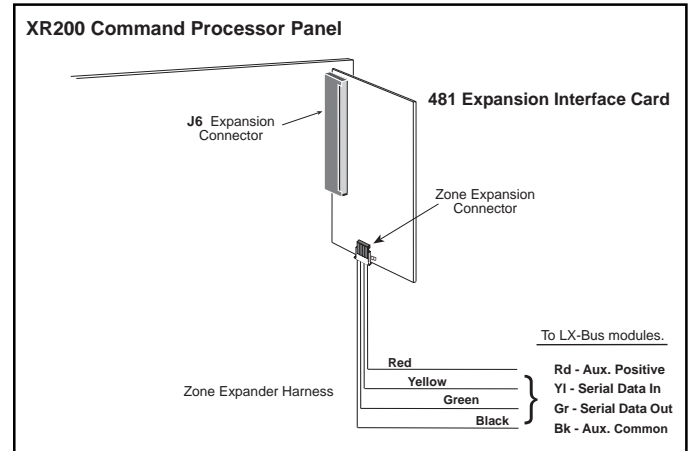


Figure 1: 481 card connection and LX-Bus harness.

Connecting devices to the 481

The 481 card contains a 4-wire LX-Bus harness to which you connect the hardwire LX-Bus devices detailed above. The harness plugs into a 4-pin header located on the bottom of the 481 card.

Connect the 4-wire LX-Bus wiring to the harness using the following color guide. All four wires are used.

481 Harness		LX-Bus Wiring
Red	connects to	Auxiliary power
Yellow	connects to	Yellow
Green	connects to	Green
Black	connects to	Common

Installing the 481 card

1. Remove AC and battery power from the XR200 panel before installing the 481 card.
2. Carefully align the 50 pin connector of the 481 with the J6 connector on the XR200 panel.
3. Gently press the 481 onto the J6 connector while applying even pressure to both sides of the board.
4. Connect the LX-Bus wiring to the harness supplied with the module.
5. Press the harness connector onto the LX-bus header on the bottom of the 481 card.
6. Restore power to the panel.

Installing multiple expansion devices

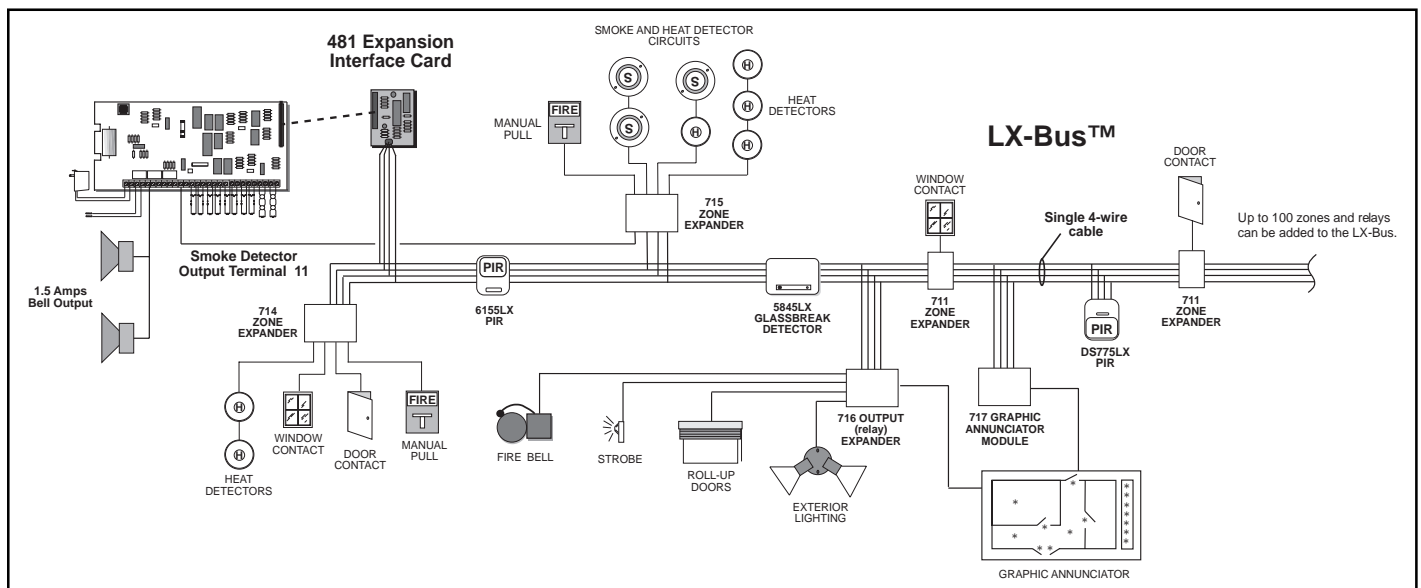
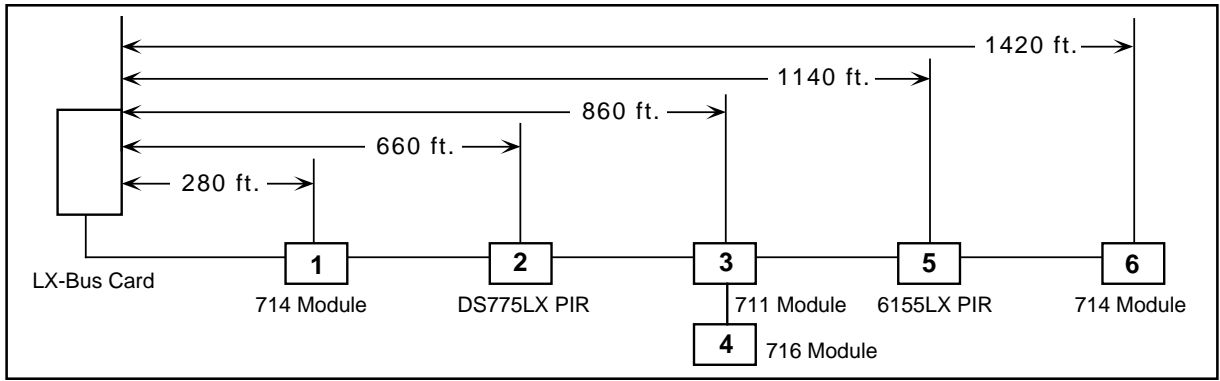


Figure 2: XR200 panel with 481 card and LX-Bus expansion devices.



Wiring distances for LX-Bus™ devices

When powering the LX-Bus completely from the panel, the maximum distance for a single run of LX-Bus wiring cannot exceed 4,000 ft. when using 22 gauge wire and 10,000 ft. when using 18 gauge wire. To calculate the total LX-Bus wiring distance, add the distances between the panel and *each* LX-Bus device. The distances added together cannot exceed the maximum allowed. See below:

In the example above, the total wiring distance is 5,220 ft. (the 860 ft. is added twice). This exceeds the allowable distance for 22 gauge wire but is within the distance allowed for 18 gauge wire. If the last device is moved to another wire run, or is powered by an auxiliary power supply, the total length for the LX-Bus is 3,800 ft., which is within the allowed distance for 22 gauge wire.

When there are two or more devices at one location, add the wire distance for each device.

Using an optional power supply

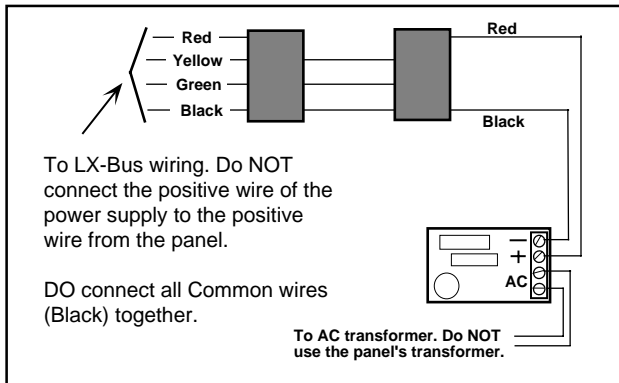


Figure 3: Power supply at end of LX-Bus.

Tips for using an auxiliary power supply:

- Locate auxiliary power supply at far end of LX-Bus wire run
- Connect the negative wire from the power supply to the common wire of the LX-Bus
- Never use the panel's transformer for the power supply