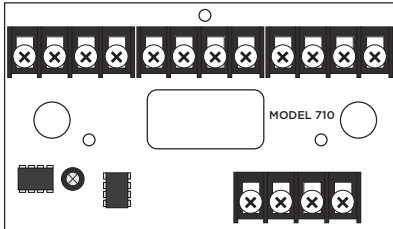


710INT BUS SPLITTER/REPEATER MODULE

Installation Guide



DESCRIPTION

The 710INT Bus Splitter/Repeater Module expands the typical LX-Bus or Keypad Bus.

As a splitter, the 710INT provides superior wire connection capability for up to three additional 12 VDC LX-Bus or Keypad Bus circuits. The module's additional circuits makes it an excellent junction box when terminating multiple LX-Bus or Keypad Bus runs at one location.

As a repeater, the module can be installed at the end of an LX-Bus or Keypad bus circuit to increase the total wire length as an additional circuit.

The 710INT Bus Splitter/Repeater Module is suitable for listed burglary and fire applications.

What is Included?

- One 710INT Splitter/Repeater Module in Universal Housing
- Hardware pack



1

MOUNT THE MODULE

The 710INT comes in a high-impact plastic housing that you can mount directly to a wall, backboard, or other flat surface. For easy installation, the back of the housing contains multiple holes that allow you to mount the module on a single-gang switch box or ring. The module can also be mounted in a DMP enclosure using the standard 3-hole mounting pattern.

Refer to Figure 1 and Figure 2 as needed during installation.

1. Hold the plastic standoffs against the inside of the enclosure side wall.
2. Insert the included Phillips head screws from the outside of the enclosure into the standoffs. Tighten the screws.
3. Carefully snap the module onto the standoffs.

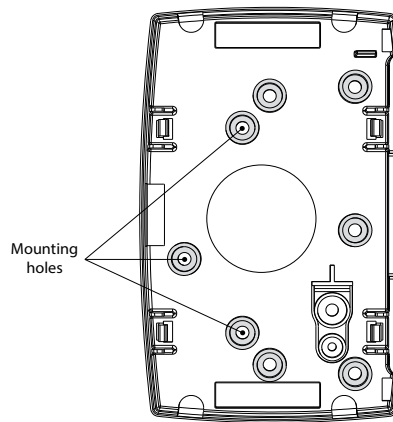


Figure 1: Mounting Hole Locations

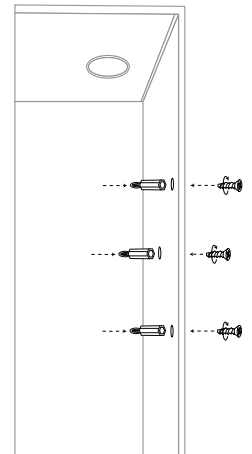


Figure 2: Standoff Installation

2

WIRE THE MODULE

Use 18 to 22 AWG wire to connect the module directly to the Keypad Bus or use a dual-ended 4-wire harness to connect directly to the LX-Bus. This connection allows the module to communicate with the panel and receive 12 VDC power. Refer to Figure 3 when wiring the module.

When using an auxiliary power supply, do not connect the red wire between the panel and first device. Refer to Figure 6.

Connect to the LX-Bus on Panel

1. At the module, connect wires to the RED, YEL, GRN, and BLK terminals.
2. Connect the red, yellow, green, and black wires to the corresponding 4-wire harness leads.
3. Connect the other end of the harness to the LX-Bus header.

Connect to the Keypad Bus

1. At the module, connect wires to the RED, YEL, GRN, and BLK terminals.
2. Connect the red, yellow, green, and black wires to panel Terminal 7, 8, 9, and 10 respectively.

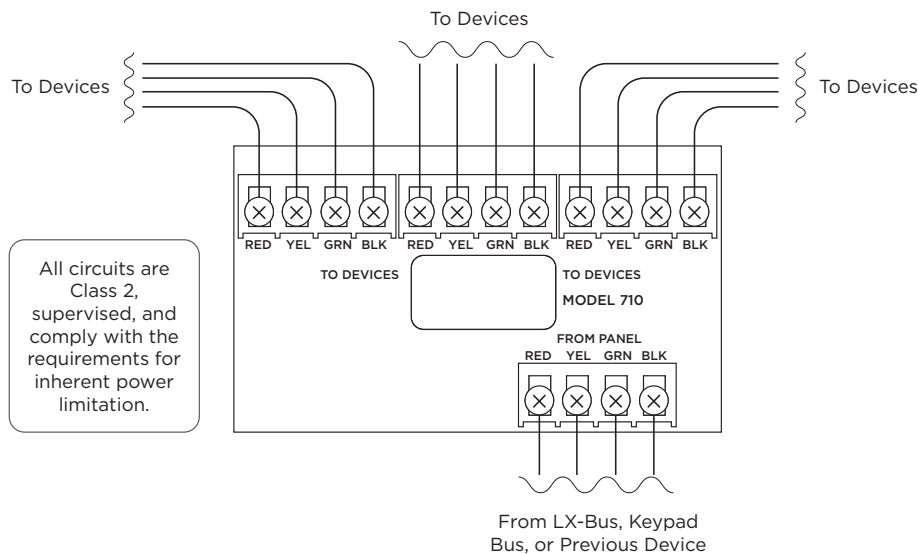


Figure 5: Module Wiring Diagram

Measure Voltage Drop

The maximum voltage drop between the panel and any device connected to the LX-Bus or Keypad Bus is 2.0 VDC. For example, when the voltage across the red and black wires at the panel reads 13.8 VDC, the voltage measured at each device must be equal or greater than 11.8 VDC. For more information, refer to Figure 4 and Figure 5.

If the voltage at any device, including a 710INT module, is less than the required level, add an auxiliary power supply to the circuit. Increasing the wire gauge used on the circuit can reduce the voltage drop. The maximum voltage drop rule applies to LX-Bus circuits and Keypad data bus circuits powered either by the panel or by an auxiliary power supply. For more information, refer to Figure 6.

Note: To troubleshoot voltage drop, read the voltage at the last device on the LX-Bus or Keypad Bus.

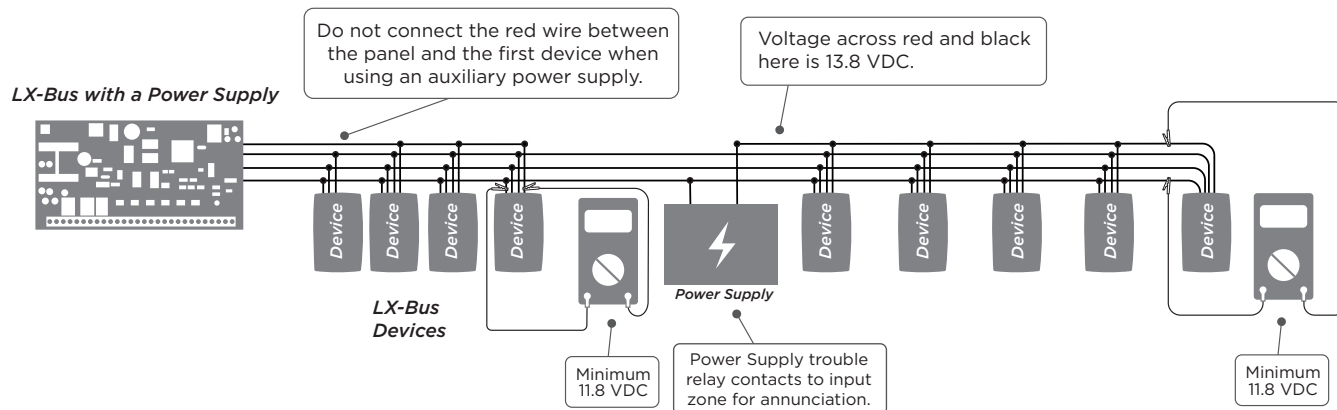


Figure 3: Measuring Voltage Drop for LX-Bus with Power Supply

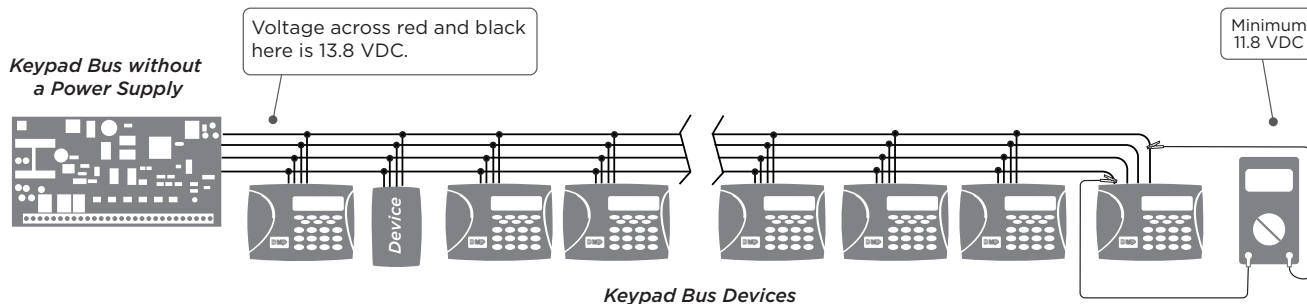


Figure 4: Measuring Voltage Drop for Keypad Bus without Power Supply

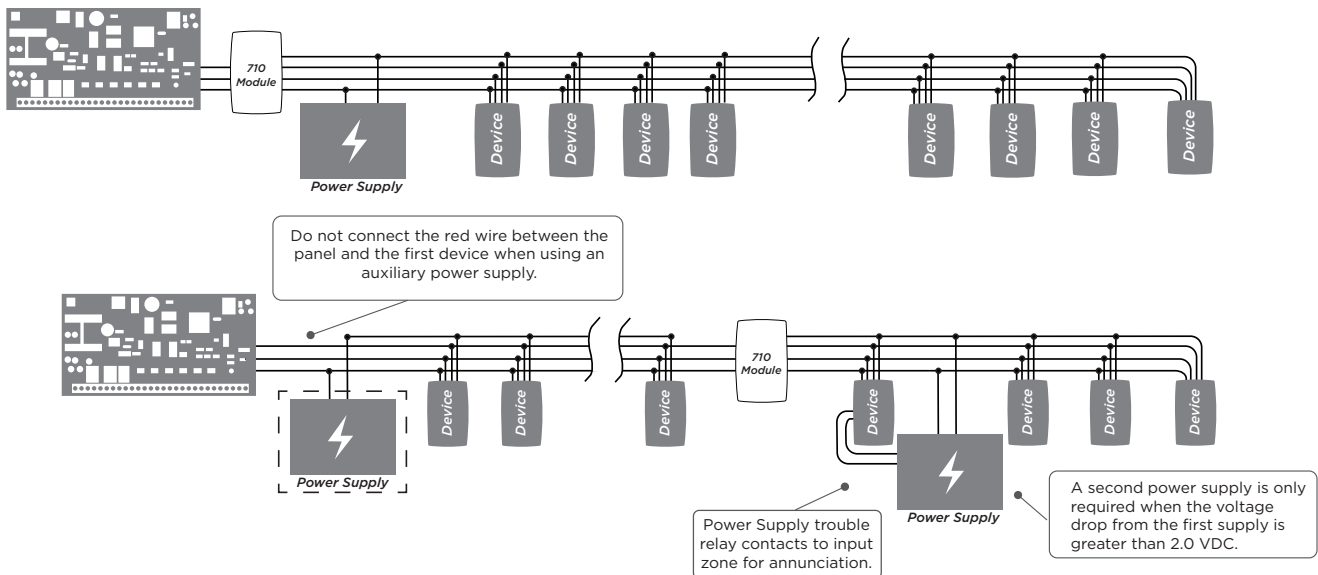


Figure 6: Installing Optional Power Supplies

Wire Multiple Circuits

In Figure 7, the first 710INT module is in close proximity to the panel. At this point, the module is used to branch the LX-Bus or Keypad Bus into three separate circuits. Each circuit can be run at a distance of 2,500 feet (762 meters).

At the end of the 2,500 feet (762 meters), install another 710INT module to an additional 2,500 feet (762 meters) of LX-Bus/Keypad Bus capability. For more information, refer to Figure 7.

Note: The total combined distance of all circuits cannot exceed 15,000 feet (4,572 meters). Do not install more than 40 devices per each 2,500 feet run.

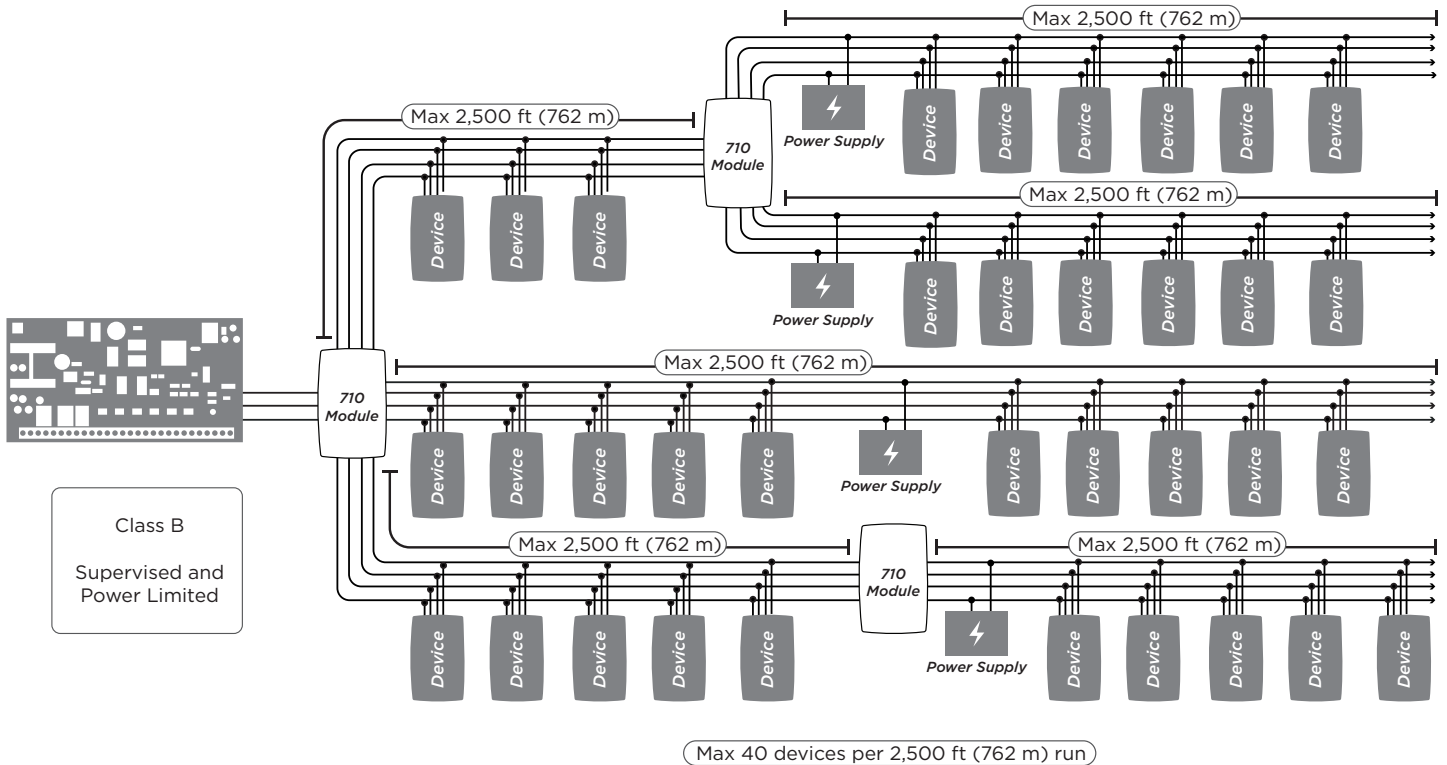


Figure 7: Wiring Multiple Circuits

ADDITIONAL INFORMATION

Use the Module as a Junction Box

To use the 710INT as a junction box, add the module to the LX-Bus or Keypad Bus circuit close to any large grouping of devices. The module enables connection to three separate wire runs to the main LX-Bus or Keypad Bus. In this application, wire nuts or other mechanical connectors are not required as all wiring terminates the module screw terminals. Refer to Figure 8.

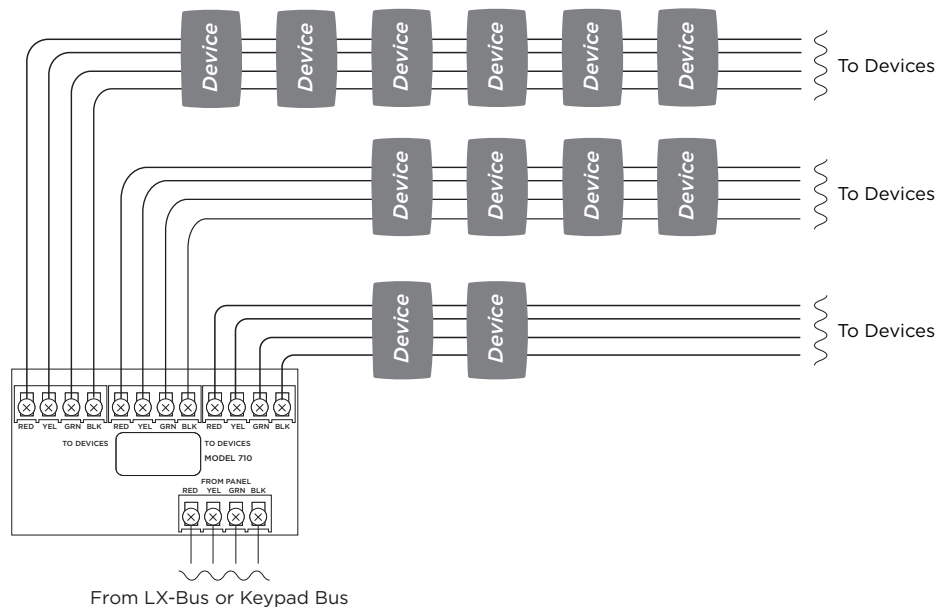


Figure 8: Using the Module as a Junction Box

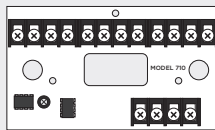
710INT BUS SPLITTER/ REPEATER MODULE

Specifications

Current Draw	
Voltage Range	8 VDC to 14.5 VDC
710 Module	32 mA
Dimensions	4.5" W x 2.75" H x 1.75" D 11.4 cm W x 7 cm H x 4.5 cm D
Wire Specification	Accepts 12 to 22 AWG wire

Compatibility

XT30INT Series panels
XR150INT/XR550INT Series panels



International Certifications

Security Grade:	3
Environmental Class:	II

Intertek (ETL)

EN 50130-4	EMC Product Family Standard: Immunity Requirements for Components of Fire, Intruder, and Social Alarm Systems
EN 50130-5	Environmental Standards
EN 50131-1:2006+A1	Intrusion and hop-up systems
EN 50131-3:2009	Control and Indicating Equipment
EN 50133-1:1997	Access Control Systems
EN 61000-3-2	Limits - Limits for Harmonic Current Emissions (Equip. Input Current up to an Including 16 A per Phase) Includes A1 & A2 July 1, 2009
EN 61000-3-3	Limitation of Voltage Fluctuations & Flicker in Low-Voltage Supply Systems for Equip. with Rated Current Less Than or Equal to 16 A per Phase & Not Subject to Conditional Connection
EN 61000-6-4	Generic Standards - Emission Standard for Industrial Environments



Designed, engineered, and
manufactured in Springfield, MO
using U.S. and global components.

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